STATE OF MISSOURI

DEPARTMENT OF NATURAL RESOURCES

MISSOURI CLEAN WATER COMMISSION



MISSOURI STATE OPERATING PERMIT

In compliance with the Missouri Clean Water Law, (Chapter 644 R.S. Mo. as amended, hereinafter, the Law), and the Federal Water Pollution Control Act (Public Law 92-500, 92^{nd} Congress) as amended,

MO-0042013

Permit No.

Owner: Address:	City of Diamond 301 East Market Street, Diamond, MO 64840
Address.	301 East Market Street, Diamond, MO 04040
Continuing Authority:	Same as above
Address:	Same as above
Facility Name:	Diamond Wastewater Treatment Facility
Facility Address:	802 West Market Street, Diamond, MO 64840
Legal Description:	See Page 2
UTM Coordinates:	See Page 2
Receiving Stream:	See Page 2
First Classified Stream and ID:	See Page 2
USGS Basin & Sub-watershed No.:	See Page 2
is authorized to discharge from the facility of as set forth herein:	described herein, in accordance with the effluent limitations and monitoring requirements
FACILITY DESCRIPTION	
See Page 2	
This parmit outhorizes only westervoter disser-	sharges under the Misseuri Clean Weter Law and the National Pollutant Discharge
	charges under the Missouri Clean Water Law and the National Pollutant Discharge ner regulated areas. This permit may be appealed in accordance with Section 644.051.6 of
the Law.	\wedge
July 1, 2014	Susa tankan tau la
Effective Date	Sara Parker Pauley, Director, Department of Natural Resources
December 31, 2017	John Madray
Expiration Date	John Madras, Director, Water Protection Program

FACILITY DESCRIPTION (continued)

Permitted Feature #001 – POTW – SIC #4952

The use or operation of this facility shall be by or under the supervision of a Certified "D" Operator. No-discharge system – Two cell storage lagoon/ Wastewater irrigation/ Sludge is retained in lagoon.

Design population equivalent is 1,460.

Design flow is 208,000 gallons per day (1-in-10 year design including net rainfall minus evaporation).

Average design flow is 150,000 gallons per day (dry weather flows).

Design sludge production is 10 dry tons per year.

Legal Description: NE¹/₄, NW¹/₄, Sec. 9, T26N, R31W, Newton County

UTM Coordinates: X=381909, Y=4095054

Receiving Stream: Unnamed tributary to Carver Branch (U) (losing)

First Classified Stream and ID: Carver Branch (P) (3241)

USGS Basin & Sub-watershed No.: (11070207-0805)

Receiving Stream Watershed:

Losing stream setting that flows into Carver Branch

Facility Type:

No-discharge Storage and Irrigation System for year-round flows into lagoon.

Design Basis:Average AnnualDesign dry weather flows:150,000 gpdDesign with 1-in-10 year flows:208,000 gpd

Design PE: 1,460

Storage Basins:

Freeboard for each basin: 1 foot

Storage volume (Cell #1) (minimum to maximum water levels): 3,260,000 gallons Storage volume (Cell #2) (minimum to maximum water levels): 15,400,000 gallons

Storage Capacity (in Days): Average Annual

Design for Dry weather flows: 60 days Design with 1-in 10 year flows: 45days

Land Application:

Irrigation Volume/year: 74,000,000 gallons at design loading (including 1-in-10 year flows)

Irrigation areas: 70 acres at design loading (129 acres total available)

Application rates: 0.5 inch/hour; 1.0 inch/day; 3.0 inches/week; 39 inches/year

Field slopes: less than 10 percent

Equipment type: sprinklers/ traveling gun/ moveable big gun

Vegetation: grass land/timber/pasture

Application rate is based on: hydraulic loading rate

PERMITTED FEATURE #001

TABLE A.IRRIGATION SYSTEM LIMITATIONS AND MONITORING REQUIREMENTS

The permittee is authorized to conduct land application of wastewater as specified in the application for this permit. The final limitations shall become effective on <u>July 1, 2014</u>, and remain in effect until expiration of the permit. The land application of wastewater shall be controlled, limited and monitored by the permittee as specified below:

EEEL MENTERAR AN (ETTER (C)	LDHEG	FINAL LIMITATIONS			MONITORING REQUIREMENTS	
EFFLUENT PARAMETER(S)	UNITS	DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
Storage Basin Operational Monitoring (Note	s 1& 2)					
Storage Basin Freeboard (Note 3)	feet	*			once/month	measured
Precipitation	inches	*			daily	total
Irrigated Wastewater (Notes 2 & 4)						
Total Kjeldahl Nitrogen as N (Note 5)	mg/L	*			once/quarter**	grab
Nitrate Nitrogen as N (Note 5)	mg/L	*			once/quarter**	grab
Land Application Operational Monitoring (N	Note 2)					
Irrigation Period	hours	*			daily	total
Volume Irrigated	gallons	*			daily	total
Application Area	acres	*			daily	total
Application Rate	inches	*			daily	total

- * Monitoring requirement only.
- ** See table below for quarterly sampling

Minimum Sampling Requirements					
Quarter Months Parameters Report is Due					
First	January, February, March	Sample at least once during any month of the quarter	April 28 th		
Second	April, May, June	Sample at least once during any month of the quarter	July 28th		
Third	July, August, September	Sample at least once during any month of the quarter	October 28th		
Fourth	October, November, December	Sample at least once during any month of the quarter	January 28th		

- Note 1 No-discharge facility requirements. Wastewater shall be stored and land applied during suitable conditions so that there is no discharge from the storage basin(s) or irrigation site. An emergency discharge may occur when excess wastewater has accumulated above feasible irrigation rates due to precipitation exceeding the 1-in-10-year, 365-day rainfall or the 25-year, 24-hour storm event. The facility is required to meet a removal efficiency of 85% or more as a monthly average, however because this is a no-discharge facility, a removal efficiency of 100% is achieved and no influent monitoring is required.
- Note 2 Records shall be maintained and summarized into an annual operating report, which shall be submitted by January 28th of each year for the previous calendar year period using report forms approved by the Department. The summarized annual report is in addition to the reporting requirements listed in Table A. The summarized annual report shall include the following:
 - a. Record of maintenance and repairs performed during the year, average number of times per month the facility is checked to see if it is operating properly, and description of any unusual operating conditions encountered during the year;

- b. The number of days the storage basin(s) has discharged during the year, the discharge flow, the reasons discharge occurred and effluent analysis performed; and
- c. A summary of the irrigation operations including freeboard at the start and end of the irrigation season, the number of days of irrigation for each month, the total gallons irrigated, the total acres used, crops grown, crop yields per acre, the application rate in inches/acre per day and for the year, the monthly and annual precipitation received at the facility, a summary of testing results for wastewater and soils, and calculations for nitrogen applied and crop removal of nitrogen if required by Special Condition 19 (i).
- Note 3 Storage Basin freeboard shall be reported as Storage Basin water level in feet below the overflow level. See Special Conditions for Wastewater Irrigation System requirements.
- Note 4 Wastewater that is irrigated shall be sampled at the irrigation pump or wet well. If irrigation did not occur during the report period, report as "No Irrigation".
- Note 5 Monitor once per month during the months of March through November. Wastewater irrigation rates shall not exceed a nitrogen application rate of 150 pounds total nitrogen per acre per year, and the applied wastewater shall not exceed ten (10) mg/L of nitrate nitrogen as N. If the nitrogen application exceeds a rate of 150 pounds total nitrogen per acre per year, and/or the applied wastewater exceeds ten (10) mg/l of nitrate nitrogen as N, see Special Condition #19 (i) for additional requirements.

B. STANDARD CONDITIONS

In addition to specified conditions stated herein, this permit is subject to the attached <u>Parts I, II, & III</u> standard conditions dated <u>November 1, 2013, May 1, 2013, and March 1, 2014,</u> and hereby incorporated as though fully set forth herein.

C. SPECIAL CONDITIONS

1. Emergency Discharge. An emergency discharge from wastewater storage structures may only occur if rainfall exceeds the 1 in 10 year (Data taken from the Missouri Climate Atlas) or the 24 hour, 25 year (Data taken from NRCS Urban Hydrology for Small Watersheds) rainfall events. Discharge for any other reason shall constitute a permit violation and shall be reported in accordance with Standard Conditions, Part 1, Section B.2.b. Monitoring shall take place once in the first six (6) hours of discovery of the discharge and then once per day following the initial sampling period until the discharge ceases. The facility shall submit test results, along with the number of days the storage basin(s) has discharged during the month, to the Southwest Regional Office by the 28th day of the month after the discharge ceases. Permittee shall monitor for the following constituents:

Constituent	Units
Flow	MGD
Biochemical Oxygen Demand ₅	mg/L
Total Suspended Solids	mg/L
Ammonia as N	mg/L
pH – Units	SU
Oil & Grease	mg/L
Total Nitrogen	mg/L
Total Phosphorus	mg/L

- 2. This permit may be reopened and modified, or alternatively revoked and reissued, to:
 - (a) Comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2)(C) and (D), 304(b)(2), and 307(a) (2) of the Clean Water Act, if the effluent standard or limitation so issued or approved:
 - (1) contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
 - (2) controls any pollutant not limited in the permit.
 - (b) Incorporate new or modified effluent limitations or other conditions, if the result of a waste load allocation study, toxicity test or other information indicates changes are necessary to assure compliance with Missouri's Water Quality Standards.
 - (c) Incorporate new or modified effluent limitations or other conditions if, as the result of a watershed analysis, a Total Maximum Daily Load (TMDL) limitation is developed for the receiving waters which are currently included in Missouri's list of waters of the state not fully achieving the state's water quality standards, also called the 303(d) list.
 - (d) Incorporate the requirement to develop a pretreatment program pursuant to 40 CFR 403.8(a) when the Director of the Water Protection Program determines that a pretreatment program is necessary due to any new introduction of pollutants into the Publically Owned Treatment Works or any substantial change in the volume or character of pollutants being introduced.

The permit as modified or reissued under this paragraph shall also contain any other requirements of the Clean Water Act then applicable.

C. SPECIAL CONDITIONS (continued)

- 3. All permitted features s must be clearly marked in the field. The permitted features and land application fields shall also be marked on the aerial or topographic site map included with the Operation and Maintenance manual.
- 4. Permittee will cease discharge by connection to a facility with an area-wide management plan per 10 CSR 20-6.010(3)(B) within 90 days of notice of its availability.

5. Water Quality Standards

- (a) To the extent required by law, discharges to waters of the state shall not cause a violation of water quality standards rule under 10 CSR 20-7.031, including both specific and general criteria.
- (b) General Criteria. The following general water quality criteria shall be applicable to all waters of the state at all times including mixing zones. No water contaminant, by itself or in combination with other substances, shall prevent the waters of the state from meeting the following conditions:
 - (1) Waters shall be free from substances in sufficient amounts to cause the formation of putrescent, unsightly or harmful bottom deposits or prevent full maintenance of beneficial uses;
 - (2) Waters shall be free from oil, scum and floating debris in sufficient amounts to be unsightly or prevent full maintenance of beneficial uses:
 - (3) Waters shall be free from substances in sufficient amounts to cause unsightly color or turbidity, offensive odor or prevent full maintenance of beneficial uses;
 - (4) Waters shall be free from substances or conditions in sufficient amounts to result in toxicity to human, animal or aquatic life;
 - (5) There shall be no significant human health hazard from incidental contact with the water;
 - (6) There shall be no acute toxicity to livestock or wildlife watering;
 - (7) Waters shall be free from physical, chemical or hydrologic changes that would impair the natural biological community;
 - (8) Waters shall be free from used tires, car bodies, appliances, demolition debris, used vehicles or equipment and solid waste as defined in Missouri's Solid Waste Law, section 260.200, RSMo, except as the use of such materials is specifically permitted pursuant to section 260.200-260.247.

6. Changes in Discharges of Toxic Substances

The permittee shall notify the Director as soon as it knows or has reason to believe:

- (a) That any activity has occurred or will occur which would result in the discharge of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels:"
 - (1) One hundred micrograms per liter (100 µg/L);
 - (2) Two hundred micrograms per liter (200 µg/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 µg/L) for 2,5 dinitrophenol and for 2-methyl-4, 6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
 - (3) Five (5) times the maximum concentration value reported for the pollutant in the permit application;
 - (4) The level established by the Director in accordance with 40 CFR 122.44(f).
- (b) That they have begun or expect to begin to use or manufacture as an intermediate or final product or byproduct any toxic pollutant, which was not reported in the permit application.
- 7. Report as no-discharge when a discharge does not occur during the report period.
- 8. It is a violation of the Missouri Clean Water Law to fail to pay fees associated with this permit (644.055 RSMo).
- 9. The permittee shall comply with any applicable requirements listed in 10 CSR 20-9, unless the facility has received written notification that the Department has approved a modification to the requirements. The monitoring frequencies contained in this permit shall not be construed by the permittee as a modification of the monitoring frequencies listed in 10 CSR 20-9. If a modification of the monitoring frequencies listed in 10 CSR 20-9 is needed, the permittee shall submit a written request to the department for review and, if deemed necessary, approval.
- 10. The permittee shall submit a report annually in January to the Southwest Regional Office with the Discharge and Monitoring reports which address measures taken to locate and eliminate sources of infiltration and inflow into the collection system serving the facility for the previous year.

C. SPECIAL CONDITIONS (continued)

- 11. Bypasses, as defined in 10 CSR 20-7.015(9)(G), are not authorized at this facility and are subject to 40 CFR 122.41(m). If a bypass occurs, the permittee shall report in accordance to 40 CFR 122.41(m)(3)(i), and with Standard Condition Part I, Section B, subsection 2.b. Relevant information shall be provided orally within 24 hours from the time the permittee becomes aware of a bypass, and shall be reported to the Southwest Regional Office during normal business hours or the Environmental Emergency Response hotline at 573-634-2436 outside of normal business hours.
- 12. The facility must be sufficiently secured to restrict entry by children, livestock and unauthorized persons as well as to protect the facility from vandalism.
- 13. A least one gate must be provided to access the wastewater treatment facility and provide for maintenance and mowing. The gate shall remain locked except when opened by the permittee to perform operational monitoring, sampling, maintenance, mowing, or for inspections by the Department.
- 14. At least one (1) warning sign shall be placed on each side of the facility enclosure in such positions as to be clearly visible from all directions of approach. There shall also be one (1) sign placed for every five hundred feet (500') (150 m) of the perimeter fence. A sign shall also be placed on each gate. Minimum wording shall be SEWAGE TREATMENT FACILITY—KEEP OUT. Signs shall be made of durable materials with characters at least two inches (2") high and shall be securely fastened to the fence, equipment or other suitable locations.
- 15. The permittee shall develop, maintain and implement an Operation and Maintenance (O&M) Manual that includes all necessary items to ensure the operation and integrity of the waste handling and land application systems, including key operating procedures, an aerial or topographic site map with the permitted features, land application fields, and irrigation buffer zones marked, and a brief summary of the operation of the facility. The O & M manual shall be made available to the operator. The O&M Manual shall be reviewed and updated at least every five years.
- 16. An all-weather access road shall be provided to the treatment facility.
- 17. The berms of the storage basin(s) shall be mowed and kept free of any deep-rooted vegetation, animal dens, or other potential sources of damage to the berms.
- 18. The facility shall ensure that adequate provisions are provided to prevent surface water intrusion into the storage basin(s) and to divert stormwater runoff around the storage basin(s) and protect embankments from erosion.

19. Wastewater Irrigation System.

- (a) <u>Discharge Reporting.</u> Any unauthorized discharge from the storage basin(s) or irrigation system shall be reported to the department as soon as possible but always within 24 hours. Discharge is allowed only as described in the Facility Description and Effluent Limitations sections of this permit.
- (b) <u>Storage Basin Operating Levels No-discharge Systems.</u> The minimum and maximum operating water levels for the storage basin(s) shall be clearly marked. Each storage basin shall be operated so that the maximum water elevation does not exceed one foot below the Emergency Spillway except due to exceedances of the 1-in-10 year, 365-day or 25-year, 24-hour storm events according to National Weather Service data. Wastewater shall be land applied whenever feasible based on soil and weather conditions and permit requirements. Storage basin(s) shall be lowered to the minimum operating level prior to each winter by November 30.
- (c) <u>Emergency Spillway.</u> Lagoons and earthen storage basins should have an emergency spillway to protect the structural integrity of earthen structures during operation at near full water levels and in the event of overflow conditions. The spillway shall be at least one foot below top of berm.
- (d) <u>General Irrigation Requirements.</u> The wastewater irrigation system shall be operated so as to provide uniform distribution of irrigated wastewater over the entire irrigation site. A complete ground cover of vegetation shall be maintained on the irrigation site unless the system is approved for row crop irrigation. **Wastewater shall be land applied only during daylight hours.** The wastewater irrigation system shall be capable of irrigating the annual design flow during an application period of less than 100 days or 800 hours per year.
- (e) <u>Saturated/Frozen Conditions.</u> There shall be no irrigation during ground frost, frozen, snow covered, or saturated soil conditions, or when precipitation is imminent or occurring.
- (f) <u>Buffer Zones.</u> There shall be no irrigation within 300 feet of any down gradient pond, lake, sinkhole, losing stream or water supply withdrawal; 100 feet of gaining streams or tributaries; 150 feet of dwelling or public use areas; or 50 feet of the property line.
- (g) <u>Public Access Restrictions.</u> Public access shall not be allowed to public use area irrigation sites when application is occurring.
- (h) Irrigated Wastewater Disinfection. Wastewater shall be disinfected prior to land application (not storage) to public use areas.

C. SPECIAL CONDITIONS (continued)

- (i) Nitrogen Loading Rates. Wastewater irrigation rates shall not exceed a nitrogen application rate of 150 pounds total nitrogen per acre per year, and the applied wastewater shall not exceed ten (10) mg/l of nitrate nitrogen as N. Hydraulic application rates exceeding 60 inches per acre per year shall calculate nitrogen loading rates and include results in the annual report. The calculation procedures are as follows: (Total N) x (0.226) x (inches per acre irrigated) = pounds total N per acre. Where Total N = [Total Kjeldahl Nitrogen (TKN) as N] + [Nitrate Nitrogen as N]. If the applied wastewater exceeds 150 pounds total nitrogen per acre/year, the permittee must reduce the application rates or submit a revised permit application to request use of the Plant Available Nitrogen (PAN) method based on crop nitrogen requirements for harvested crops, along with calculations to show the amount of plant-available nitrogen provided and the amount of nitrogen that will be utilized by the vegetation to be grown. PAN availability factors for surface application are: [Ammonia N x 0.6] + [Nitrate N x 0.9] + [Organic N x 0.6] = PAN. If the applied wastewater exceeds ten (10) mg/l of nitrate nitrogen as N, then the facility shall submit a revised permit application to request use of the Plant Available Nitrogen (PAN) method based on crop nitrogen requirements for harvested crops, along with calculations to show the amount of plant-available nitrogen provided and the amount of nitrogen that will be utilized by the vegetation to be grown.
- (j) <u>Equipment Checks during Irrigation.</u> The irrigation system and application site shall be visually inspected at least <u>once/day</u> during wastewater irrigation to check for equipment malfunctions and runoff from the irrigation site.
- 20. <u>Land Application Sites</u>. To add additional land application sites or convert any of the land to public use areas, a construction permit and permit modification may be required. The facility shall contact the Department for a written determination. Additionally, the O&M Manual shall be updated to include the additional land application site(s) and a copy of the updated sections of the O&M Manual shall be submitted to the Southwest Regional Office in accordance with Special Condition #15.

21. Reporting of Non-Detects:

- (a) An analysis conducted by the permittee or their contracted laboratory shall be conducted in such a way that the precision and accuracy of the analyzed result can be enumerated.
- (b) The permittee shall not report a sample result as "Non-Detect" without also reporting the detection limit of the test. Reporting as "Non Detect" without also including the detection limit will be considered failure to report, which is a violation of this permit.
- (c) The permittee shall provide the "Non-Detect" sample result using the less than sign and the minimum detection limit (e.g. <10).
- (d) Where the permit contains a Minimum Level (ML) and the permittee is granted authority in the permit to report zero in lieu of the < ML for a specified parameter (conventional, priority pollutants, metals, etc.), then zero (0) is to be reported for that parameter.
- (e) See Standard Conditions Part I, Section A, #4 regarding proper detection limits used for sample analysis.

MISSOURI DEPARTMENT OF NATURAL RESOURCES FACT SHEET FOR THE PURPOSE OF RENEWAL OF MO-0042013 DIAMOND WASTEWATER TREATMENT FACILITY

The Federal Water Pollution Control Act ("Clean Water Act" Section 402 Public Law 92-500 as amended) established the National Pollution Discharge Elimination System (NPDES) permit program. This program regulates the discharge of pollutants from point sources into the waters of the United States, and the release of storm water from certain point sources. All such discharges are unlawful without a permit (Section 301 of the "Clean Water Act"). After a permit is obtained, a discharge not in compliance with all permit terms and conditions is unlawful. Missouri State Operating Permits (MSOPs) are issued by the Director of the Missouri Department of Natural Resources (Department) under an approved program, operating in accordance with federal and state laws (Federal "Clean Water Act" and "Missouri Clean Water Law" Section 644 as amended). MSOPs are issued for a period of five (5) years unless otherwise specified.

As per [40 CFR Part 124.8(a)] and [10 CSR 20-6.020(1)2.] a Factsheet shall be prepared to give pertinent information regarding the applicable regulations, rationale for the development of effluent limitations and conditions, and the public participation process for the Missouri State Operating Permit (operating permit) listed below.

A Factsheet is not an enforceable part of an operating permit.

This Factsheet is for a Minor.

Part I – Facility Information

Facility Type: POTW – SIC #4952

Facility Description:

No-discharge system – Two cell storage lagoon/ Wastewater irrigation/ Sludge is retained in lagoon.

Application Date: 10/09/2013 Expiration Date: 04/09/2014

PERMITTED FEATURE(S) TABLE:

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PERMITTED FEATURE	DESIGN FLOW (CFS)	TREATMENT LEVEL	Effluent type			
#001	0.32	Land Application	Domestic			
#002		eliminated				
#003		eliminated				
#004		eliminated				

Facility Performance History:

This facility was last inspected on June 19, 2013. The facility was found to be in non-compliance. This facility is currently under enforcement. Please see the Compliance and Enforcement section of Part IV – Rationale and Derivation of Effluent Limitations & Permit Conditions

Comments:

On July 17, 2013 the Southwest Regional Office received a Preliminary Engineering Report (PER) for the City of Diamond's wastewater treatment facility. The proposed project includes repairs to the storage lagoon and an I&I reduction plan. The City of Diamond met with the Department on May 28, 2014 to discuss lagoon repairs and I&I.

Stormwater outfalls #002, #003, and #004 are not required and have been removed from the permit.

Part II – Operator Certification Requirements

Applicable \(\subseteq \); This facility is required to have a certified operator.

As per [10 CSR 20-6.010(8) Terms and Conditions of a Permit], permittees shall operate and maintain facilities to comply with the Missouri Clean Water Law and applicable permit conditions and regulations. Operators or supervisors of operations at regulated wastewater treatment facilities shall be certified in accordance with [10 CSR 20-9.020(2)] and any other applicable state law or regulation. As per [10 CSR 20-9.020(2)(A)], requirements for operation by certified personnel shall apply to all wastewater treatment systems, if applicable, as listed below:

Check boxes below that are applicable to the facility;

Ov	vned or operated by or for:	
•	Municipalities	\boxtimes
•	Public Sewer District:	
•	County	
•	Public Water Supply Districts:	
•	Private sewer company regulated by the Public Service Commission:	
•	State or Federal agencies:	

This facility currently requires an operator with a <u>D</u> Certification Level. Please see **Appendix - Classification Worksheet.** Modifications made to the wastewater treatment facility may cause the classification to be modified.

Operator's Name: Duane Linch

Certification Number: 3929 Certification Level: A

The listing of the operator above only signifies that staff drafting this operating permit have reviewed appropriate Department records and determined that the name listed on the operating permit application has the correct and applicable Certification Level.

Part III – Operational Monitoring

As per [10 CSR 20-9.010(4))], the facility is required to conduct operational monitoring.

Part IV – Receiving Stream Information

While this facility is no discharge, a receiving stream is listed for the purposes of showing what stream would be affected in the event of an emergency release due to an acute or chronic rain event. 10 CSR 20-7.031 Missouri Water Quality Standards, the Department defines the Clean Water Commission water quality objectives in terms of "water uses to be maintained and the criteria to protect those uses." The receiving stream and/or 1st classified receiving stream's beneficial water uses to be maintained, are located in the Receiving Stream Table located below in accordance with [10 CSR 20-7.031(4)].

RECEIVING STREAM(S) TABLE:

ECDIVITO DIRECTOR INDEE.					
WATER-BODY NAME	CLASS	WBID	DESIGNATED USES*	12-Digit HUC	DISTANCE TO CLASSIFIED SEGMENT (MI)
Unnamed tributary to Carver Branch	U	NA	General Criteria	(11070207-0805)	3.6
Carver Branch	P	3241	LWW, AQL, WBC(A)	(110/0207-0803)	3.0

^{* -} Irrigation (IRR), Livestock & Wildlife Watering (LWW), Protection of Warm Water Aquatic Life and Human Health-Fish Consumption (AQL), Cool Water Fishery (CLF), Cold Water Fishery (CDF), Whole Body Contact Recreation (WBC), Secondary Contact Recreation (SCR), Drinking Water Supply (DWS), Industrial (IND), Groundwater (GRW).

RECEIVING STREAM MONITORING REQUIREMENTS:

No receiving water monitoring requirements recommended at this time.

Part V - Rationale and Derivation of Effluent Limitations & Permit Conditions

ALTERNATIVE EVALUATIONS FOR NEW FACILITIES:

As per [10 CSR 20-7.015(4)(A)], discharges to losing streams shall be permitted only after other alternatives including land application, discharges to a gaining stream and connection to a regional wastewater treatment facility have been evaluated and determined to be unacceptable for environmental and/or economic reasons.

Not Applicable \boxtimes ; The facility does not discharge to a Losing Stream as defined by [10 CSR 20-2.010(36)] & [10 CSR 20-7.031(1)(N)], or is an existing facility.

ANTI-BACKSLIDING:

A provision in the Federal Regulations [CWA §303(d)(4); CWA §402(c); 40 CFR Part 122.44(I)] that requires a reissued permit to be as stringent as the previous permit with some exceptions.

□ - All limits in this operating permit are at least as protective as those previously established; therefore, backsliding does not apply.

ANTIDEGRADATION:

In accordance with Missouri's Water Quality Standard [10 CSR 20-7.031(2)], the Department is to document by means of Antidegradation Review that the use of a water body's available assimilative capacity is justified. Degradation is justified by documenting the socio-economic importance of a discharging activity after determining the necessity of the discharge.

□ No degradation proposed and no further review necessary. Facility did not apply for authorization to increase pollutant loading or to add additional pollutants to their discharge.

AREA-WIDE WASTE TREATMENT MANAGEMENT & CONTINUING AUTHORITY:

As per [10 CSR 20-6.010(3)(B)], ... An applicant may utilize a lower preference continuing authority by submitting, as part of the application, a statement waiving preferential status from each existing higher preference authority, providing the waiver does not conflict with any area-wide management plan approved under section 208 of the Federal Clean Water Act or any other regional sewage service and treatment plan approved for higher preference authority by the Department.

BIOSOLIDS & SEWAGE SLUDGE:

Biosolids are solid materials resulting from domestic wastewater treatment that meet federal and state criteria for beneficial uses (i.e. fertilizer). Sewage sludge is solids, semi-solids, or liquid residue generated during the treatment of domestic sewage in a treatment works; including but not limited to, domestic septage; scum or solids removed in primary, secondary, or advanced wastewater treatment process; and a material derived from sewage sludge. Sewage sludge does not include ash generated during the firing of sewage sludge in a sewage sludge incinerator or grit and screening generated during preliminary treatment of domestic sewage in a treatment works. Additional information regarding biosolids and sludge is located at the following web address: http://dnr.mo.gov/env/wpp/pub/index.html, items WQ422 through WQ449.

☑ - Permittee is not authorized to land apply biosolids. Sludge/biosolids are removed by contract hauler, incinerated, stored in the lagoon, etc. The permittee must submit a sludge management plan for approval that details removal and disposal plans when sludge is to be removed from lagoons.

COMPLIANCE AND ENFORCEMENT:

Enforcement is the action taken by the Water Protection Program (WPP) to bring an entity into compliance with the Missouri Clean Water Law, its implementing regulations, and/or any terms and conditions of an operating permit. The primary purpose of the enforcement activity in the WPP is to resolve violations and return the entity to compliance.

Applicable \boxtimes ; The permittee/facility is currently under enforcement action due to the following: failure to comply with effluent limits, failure to submit complete and timely DMRs, failure to submit complete and timely I&I reports, failure to report bypasses, for causing pollution to a tributary to Carver Branch, and for discharging water contaminants into waters of the state. The City of Diamond entered into an Abatement Order on Consent (AOC) in November of 2012. In the AOC the city agreed to pay a civil penalty, to notify the department of discharges, to operate the lagoon so the maximum water elevation does not exceed one foot below the overflow point, to provide uniform distribution of irrigated wastewater, to submit required reports in a timely manner, to provide a locking gate and fence around the facility, and to complete upgrades or replacement of its lagoon that will enable the lagoon to comply with the law.

Diamond WWTF Fact Sheet Page #4

PRETREATMENT PROGRAM:

The reduction of the amount of pollutants, the elimination of pollutants, or the alteration of the nature of pollutant properties in wastewater prior to or in lieu of discharging or otherwise introducing such pollutants into a Publicly Owned Treatment Works [40 CFR Part 403.3(q)].

Pretreatment programs are required at any POTW (or combination of POTW operated by the same authority) and/or municipality with a total design flow greater than 5.0 MGD and receiving industrial wastes that interfere with or pass through the treatment works or are otherwise subject to the pretreatment standards. Pretreatment programs can also be required at POTWs/municipals with a design flow less than 5.0 MGD if needed to prevent interference with operations or pass through.

Several special conditions pertaining to the permittee's pretreatment program may be included in the permit, and are as follows:

- Implementation and enforcement of the program,
- Annual pretreatment report submittal,
- Submittal of list of industrial users,
- Technical evaluation of need to establish local limitations, and
- Submittal of the results of the evaluation

Not Applicable \(\sigma\); The permittee, at this time, is not required to have a Pretreatment Program or does not have an approved pretreatment program.

REMOVAL EFFICIENCY:

This facility is subject to the Secondary Treatment standard of 85% removal [40 CFR Part 133.102(a)(3) & (b)(3)]. Removal efficiency is a method by which the Federal Regulations define Secondary Treatment and Equivalent to Secondary Treatment, which applies to Biochemical Oxygen Demand 5-day (BOD₅) and Total Suspended Solids (TSS). This is a no-discharge facility, therefore removal efficiency is 100% and influent monitoring is not required.

SANITARY SEWER OVERFLOWS (SSO) AND INFLOW AND INFILTRATION (I&I):

Sanitary Sewer Overflows (SSOs) are defined as untreated sewage releases and are considered bypassing under state regulation [10 CSR 20-2.010(11)] and should not be confused with the federal definition of bypass. SSOs result from a variety of causes including blockages, line breaks, and sewer defects that can either allow wastewater to backup within the collection system during dry weather conditions or allow excess stormwater and groundwater to enter and overload the collection system during wet weather conditions. SSOs can also result from lapses in sewer system operation and maintenance, inadequate sewer design and construction, power failures, and vandalism. SSOs include overflows out of manholes, cleanouts, broken pipes, and other into waters of the state and onto city streets, sidewalks, and other terrestrial locations.

Inflow and Infiltration (I&I) is defined as unwanted intrusion of stormwater or groundwater into a collection system. This can occur from points of direct connection such as sump pumps, roof drain downspouts, foundation drains, and storm drain cross-connections or through cracks, holes, joint failures, faulty line connections, damaged manholes, and other openings in the collection system itself. I&I results from a variety of causes including line breaks, improperly sealed connections, cracks caused by soil erosion/settling, penetration of vegetative roots, and other sewer defects. In addition, excess stormwater and groundwater entering the collection system from line breaks and sewer defects have the potential to negatively impact the treatment facility.

Missouri RSMo §644.026.1 mandates that the Department require proper maintenance and operation of treatment facilities and sewer systems and proper disposal of residual waste from all such facilities.

Applicable \boxtimes ; In accordance with Missouri RSMo §644.026.1.(15) and 40 CFR Part 122.41(e), the permittee is required to develop and/or implement a program for maintenance and repair of the collection system and shall be required in this operating permit by either means of a Special Condition or Schedule of Compliance. In addition, the Department considers the development of this program as an implementation of this condition. Additionally, 40 CFR Part 403.3(o) defines a POTW to include any device and systems used in the storage, treatment, recycling and reclamation of municipal sewage or industrial wastes of liquid nature. It also includes sewers, pipes, and other conveyances only if they convey wastewater to a POTW Treatment Plant.

At this time, the Department recommends the US EPA's Guide for Evaluating Capacity, Management, Operation and Maintenance (CMOM) Programs At Sanitary Sewer Collection Systems (Document # EPA 305-B-05-002). The CMOM identifies some of the criteria used by the EPA to evaluate a collection system's management, operation, and maintenance and was intended for use by the EPA, state, regulated community, and/or third party entities. The CMOM is applicable to small, medium, and large systems; both public and privately owned; and both regional and satellite collection systems. The CMOM does not substitute for the Clean Water Act, the Missouri Clean Water Law, and both federal and state regulations, as it is not a regulation.

SCHEDULE OF COMPLIANCE (SOC):

Per 644.051.4 RSMo, a permit may be issued with a Schedule of Compliance (SOC) to provide time for a facility to come into compliance with new state or federal effluent regulations, water quality standards, or other requirements. Such a schedule is not allowed if the facility is already in compliance with the new requirement, or if prohibited by other statute or regulation. A SOC includes an enforceable sequence of interim requirements (actions, operations, or milestone events) leading to compliance with the Missouri Clean Water Law, its implementing regulations, and/or the terms and conditions of an operating permit. *See also* Section 502(17) of the Clean Water Act, and 40 CFR §122.2. For new effluent limitations, the permit includes interim monitoring for the specific parameter to demonstrate the facility is not already in compliance with the new requirement. Per 40 CFR § 122.47(a)(1) and 10 CSR 20-7.031(10), compliance must occur as soon as possible. If the permit provides a schedule for meeting new water quality based effluent limits, a SOC must include an enforceable, final effluent limitation in the permit even if the SOC extends beyond the life of the permit.

A SOC is not allowed:

- For effluent limitations based on technology-based standards established in accordance with federal requirements, if the deadline for compliance established in federal regulations has passed. 40 CFR § 125.3.
- For a newly constructed facility in most cases. Newly constructed facilities must meet applicable effluent limitations when discharge begins, because the facility has installed the appropriate control technology as specified in a permit or antidegradation review. A SOC is allowed for a new water quality based effluent limit that was not included in a previously public noticed permit or antidegradation review, which may occur if a regulation changes during construction.
- To develop a TMDL, UAA, or other study associated with development of a site specific criterion. A facility is not prohibited from conducting these activities, but a SOC may not be granted for conducting these activities.

In order to provide guidance to Permit Writers in developing SOCs, and attain a greater level of consistency, on October 25, 2012 the department issued a policy on development of SOCs. This policy provides guidance to Permit Writers on the standard time frames for schedules for common activities, and guidance on factors that may modify the length of the schedule such as an affordability analysis.

Not Applicable \(\subseteq \); This permit does not contain a SOC.

VARIANCE:

As per the Missouri Clean Water Law § 644.061.4, variances shall be granted for such period of time and under such terms and conditions as shall be specified by the commission in its order. The variance may be extended by affirmative action of the commission. In no event shall the variance be granted for a period of time greater than is reasonably necessary for complying with the Missouri Clean Water Law §§644.006 to 644.141 or any standard, rule or regulation promulgated pursuant to Missouri Clean Water Law §§644.006 to 644.141.

Not Applicable \(\subseteq \); This operating permit is not drafted under premises of a petition for variance.

WATER QUALITY STANDARDS:

Per [10 CSR 20-7.031(3)], General Criteria shall be applicable to all waters of the state at all times including mixing zones. Additionally, [40 CFR 122.44(d)(1)] directs the Department to establish in each NPDES permit to include conditions to achieve water quality established under Section 303 of the Clean Water Act, including State narrative criteria for water quality.

40 CFR 122.41(M) - BYPASSES:

The federal Clean Water Act (CWA), Section 402 prohibits wastewater dischargers from "bypassing" untreated or partially treated sewage (wastewater) beyond the headworks. A bypass is defined as an intentional diversion of waste streams from any portion of a treatment facility, [40 CFR 122.41(m)(1)(i)]. Additionally, Missouri regulation 10 CSR 20-2.010(11) defines a bypass as the diversion of wastewater from any portion of wastewater treatment facility or sewer system to waters of the state. Only under exceptional and specified limitations do the federal regulations allow for a facility to bypass some or all of the flow from its treatment process. Bypasses are prohibited by the CWA unless a permittee can meet all of the criteria listed in 40 CFR 122.41(m)(4)(i)(A), (B), & (C). Any bypasses from this facility are subject to the reporting required in 40 CFR 122.41(l)(6) and per Missouri's Standard Conditions I, Section B, part 2.b. Additionally, Anticipated Bypasses include bypasses from peak flow basins or similar devices designed for peak wet weather flows.

Not Applicable ⊠; This facility does not anticipate bypassing.

Part VI - Permit Limits Determination

PERMITTED FEATURE #001

- Freeboard. Monitoring requirement to verify adequate freeboard is maintained, so as to avoid and overflow of the storage basin.
- <u>Precipitation.</u> Monitoring requirement to ensure appropriate land application is conducted to account for accumulated water in the storage basin.
- <u>Irrigation Period.</u> Monitoring requirement only. Monitoring for the Irrigation Period is included to determine if proper application is occurring on the land application fields.
- <u>Volume Irrigated</u>. Monitoring requirement only. Monitoring for the Volume Irrigated is included to determine if proper application is occurring on the land application fields.
- <u>Application Area.</u> Monitoring requirement only. Monitoring for the Application Area is included to determine if proper application is occurring on the land application fields.
- <u>Application Rate</u>. Monitoring requirement only. Monitoring for the Application Rate is included to determine if proper application is occurring on the land application fields.
- <u>Total Kjeldahl Nitrogen.</u> Monitoring requirement only. Monitoring for Total Kjeldahl Nitrogen as N is included to determine nutrient loading rates on the land application fields. [10 CSR 20-6.015(4)(C)]
- <u>Nitrate Nitrogen as N.</u> Monitoring requirement only. Monitoring for Nitrate Nitrogen as N is included to determine nutrient loading rates on the land application fields. [10 CSR 20-6.015(4)(C)]

Sampling Frequency Justification:

Sampling frequency has been determined to be appropriate so it has been retained from the previous state operating permit.

Sampling Type Justification:

Due to the discharge being from irrigation from a storage basin, a grab sample is a representative and appropriate sample type. Variation in nutrient concentration is not expected over a 24 hour period.

Part VII - Finding of Affordability

Pursuant to Section 644.145, RSMo., the Department is required to determine whether a permit or decision is affordable and makes a finding of affordability for certain permitting and enforcement decisions. This requirement applies to discharges from combined or separate sanitary sewer systems or publically-owned treatment works.

Not Applicable; The Department is not required to determine findings of affordability because the permit contains no new conditions or requirements that convey a new cost to the facility.

Part VIII - Administrative Requirements

On the basis of preliminary staff review and the application of applicable standards and regulations, the Department, as administrative agent for the Missouri Clean Water Commission, proposes to issue a permit(s) subject to certain effluent limitations, schedules, and special conditions contained herein and within the operating permit. The proposed determinations are tentative pending public comment.

PERMIT SYNCHRONIZATION:

The Department of Natural Resources is currently undergoing a synchronization process for operating permits. Permits are normally issued on a five-year term, but to achieve synchronization many permits will need to be issued for less than the full five years allowed by regulation. The intent is that all permits within a watershed will move through the Watershed Based Management (WBM) cycle together will all expire in the same fiscal year. This will allow further streamlining by placing multiple permits within a smaller geographic area on public notice simultaneously, thereby reducing repeated administrative efforts. This will also allow the department to explore a watershed based permitting effort at some point in the future. Renewal applications must continue to be submitted within 180 days of expiration, however, in instances where effluent data from the previous renewal is less than 4 years old, that data may be re-submitted to meet the requirements of the renewal application. If the permit provides a schedule of compliance for meeting new water quality based effluent limits beyond the expiration date of the permit, the time remaining in the schedule of compliance will be allotted in the renewed permit.

PUBLIC NOTICE:

The Department shall give public notice that a draft permit has been prepared and its issuance is pending. Additionally, public notice will be issued if a public hearing is to be held because of a significant degree of interest in and water quality concerns related to a draft permit. No public notice is required when a request for a permit modification or termination is denied; however, the requester and permittee must be notified of the denial in writing.

The Department must issue public notice of a pending operating permit or of a new or reissued statewide general permit. The public comment period is the length of time not less than 30 days following the date of the public notice which interested persons may submit written comments about the proposed permit.

For persons wanting to submit comments regarding this proposed operating permit, then please refer to the Public Notice page located at the front of this draft operating permit. The Public Notice page gives direction on how and where to submit appropriate comments.

☑ - The Public Notice period for this operating permit was from April 18, 2014 – May 19, 2014. No comments were received.

DATE OF FACT SHEET: FEBRUARY 20, 2014

COMPLETED BY:

ANGELA FALLS, ENVIRONMENTAL SPECIALIST
MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER PROTECTION PROGRAM
OPERATING PERMITS SECTION - DOMESTIC WASTEWATER UNIT
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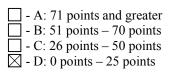
Appendices

APPENDIX - CLASSIFICATION WORKSHEET:

Ітем	POINTS POSSIBLE	POINTS ASSIGNED
Maximum Population Equivalent (P.E.) served (Max 10 pts.)	1 pt./10,000 PE or major fraction thereof.	0
Maximum: 10 pt Design Flow (avg. day) or peak month; use greater (Max 10 pts.)	1 pt. / MGD or major fraction thereof.	0
EFFLUENT DISCHARGE RECEIVING	WATER SENSITIVITY:	
Missouri or Mississippi River	0	
All other stream discharges except to losing streams and stream reaches supporting whole body contact	1	
Discharge to lake or reservoir outside of designated whole body contact recreational area	2	
Discharge to losing stream, or stream, lake or reservoir area supporting whole body contact recreation	3	3
PRELIMINARY TREATMENT	Γ - Headworks	
Screening and/or comminution	3	
Grit removal	3	
Plant pumping of main flow (lift station at the headworks)	3	3
PRIMARY TREATM	ENT	
Primary clarifiers	5	
Combined sedimentation/digestion	5	
Chemical addition (except chlorine, enzymes)	4	
REQUIRED LABORATORY CONTROL – performed	by plant personnel (highest level only)	1
Push – button or visual methods for simple test such as pH, Settleable solids	3	
Additional procedures such as DO, COD, BOD, titrations, solids, volatile content	5	5
More advanced determinations such as BOD seeding procedures, fecal coliform, nutrients, total oils, phenols, etc.	7	
Highly sophisticated instrumentation, such as atomic absorption and gas chromatograph	10	
ALTERNATIVE FATE OF I	EFFLUENT	
Direct reuse or recycle of effluent	6	
Land Disposal – low rate	3	
High rate	5	5
Overland flow	4	
Total from page ONE (1)		16

APPENDIX - CLASSIFICATION WORKSHEET (CONTINUED):

Ітем	POINTS POSSIBLE	POINTS ASSIGNED
VARIATION IN RAW WASTE (highest level only) (DMR ex	xceedances and Design Flow excee	edances)
Variation do not exceed those normally or typically expected	0	
Recurring deviations or excessive variations of 100 to 200 % in strength and/or flow	2	
Recurring deviations or excessive variations of more than 200 % in strength and/or flow	4	4
Raw wastes subject to toxic waste discharge	6	
SECONDARY TREATM	MENT	
Trickling filter and other fixed film media with secondary clarifiers	10	
Activated sludge with secondary clarifiers (including extended aeration and oxidation ditches)	15	
Stabilization ponds without aeration	5	5
Aerated lagoon	8	
Advanced Waste Treatment Polishing Pond	2	
Chemical/physical – without secondary	15	
Chemical/physical – following secondary	10	
Biological or chemical/biological	12	
Carbon regeneration	4	
DISINFECTION		
Chlorination or comparable	5	
Dechlorination	2	
On-site generation of disinfectant (except UV light)	5	
UV light	4	
SOLIDS HANDLING - SI	LUDGE	
Solids Handling Thickening	5	
Anaerobic digestion	10	
Aerobic digestion	6	
Evaporative sludge drying	2	
Mechanical dewatering	8	
Solids reduction (incineration, wet oxidation)	12	
Land application	6	
Total from page TWO (2)		9
Total from page ONE (1)		16
Grand Total		25





THE MISSOURI DEPARTMENT OF NATURAL RESOURCES MISSOURI CLEAN WATER COMMISSION REVISED

NOVEMBER 1, 2013

These Standard Conditions incorporate permit conditions as required by 40 CFR 122.41 or other applicable state statutes or regulations. These minimum conditions apply unless superseded by requirements specified in the permit.

Part I – General Conditions Section A – Sampling, Monitoring, and Recording

1. Sampling Requirements.

- Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.
- b. All samples shall be taken at the outfall(s) or Missouri Department of Natural Resources (Department) approved sampling location(s), and unless specified, before the effluent joins or is diluted by any other body of water or substance.

2. Monitoring Requirements.

- a. Records of monitoring information shall include:
 - i. The date, exact place, and time of sampling or measurements;
 - ii. The individual(s) who performed the sampling or measurements;
 - iii. The date(s) analyses were performed;
 - iv. The individual(s) who performed the analyses;
 - v. The analytical techniques or methods used; and
 - vi. The results of such analyses.
- b. If the permittee monitors any pollutant more frequently than required by the permit at the location specified in the permit using test procedures approved under 40 CFR Part 136, or another method required for an industry-specific waste stream under 40 CFR subchapters N or O, the results of such monitoring shall be included in the calculation and reported to the Department with the discharge monitoring report data (DMR) submitted to the Department pursuant to Section B, paragraph 7.
- Sample and Monitoring Calculations. Calculations for all sample and monitoring results which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in the permit.
- Test Procedures. The analytical and sampling methods used shall conform to the reference methods listed in 10 CSR 20-7.015 unless alternates are approved by the Department. The facility shall use sufficiently sensitive analytical methods for detecting, identifying, and measuring the concentrations of pollutants. The facility shall ensure that the selected methods are able to quantify the presence of pollutants in a given discharge at concentrations that are low enough to determine compliance with Water Quality Standards in 10 CSR 20-7.031 or effluent limitations unless provisions in the permit allow for other alternatives. A method is "sufficiently sensitive" when; 1) the method minimum level is at or below the level of the applicable water quality criterion for the pollutant or, 2) the method minimum level is above the applicable water quality criterion, but the amount of pollutant in a facility's discharge is high enough that the method detects and quantifies the level of pollutant in the discharge, or 3) the method has the lowest minimum level of the analytical methods approved under 10 CSR 20-7.015. These methods are also required for parameters that are listed as monitoring only, as the data collected may be used to determine if limitations need to be established. A permittee is responsible for working with their contractors to ensure that the analysis performed is sufficiently sensitive.
- 5. Record Retention. Except for records of monitoring information required by the permit related to the permittee's sewage sludge use and disposal activities, which shall be retained for a period of at least five (5) years (or longer as required by 40 CFR part 503), the permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by the permit, and records of all data used to complete the application for the permit, for a period of at least three (3) years from the date of the sample, measurement, report or application. This period may be extended by request of the Department at any time.

Illegal Activities.

- The Federal Clean Water Act provides that any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under the permit shall, upon conviction, be punished by a fine of not more than \$10,000, or by imprisonment for not more than two (2) years, or both. If a conviction of a person is for a violation committed after a first conviction of such person under this paragraph, punishment is a fine of not more than \$20,000 per day of violation, or by imprisonment of not more than four (4) years, or both.
- b. The Missouri Clean Water Law provides that any person or who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained pursuant to sections 644.006 to 644.141 shall, upon conviction, be punished by a fine of not more than \$10,000, or by imprisonment for not more than six (6) months, or by both. Second and successive convictions for violation under this paragraph by any person shall be punished by a fine of not more than \$50,000 per day of violation, or by imprisonment for not more than two (2) years, or both.

Section B – Reporting Requirements

Planned Changes.

- a. The permittee shall give notice to the Department as soon as possible of any planned physical alterations or additions to the permitted facility when:
 - The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in 40 CFR 122.29(b); or
 - ii. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations in the permit, nor to notification requirements under 40 CFR 122.42(a)(1);
 - iii. The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan;
 - iv. Any facility expansions, production increases, or process modifications which will result in a new or substantially different discharge or sludge characteristics must be reported to the Department 60 days before the facility or process modification begins. Notification may be accomplished by application for a new permit. If the discharge does not violate effluent limitations specified in the permit, the facility is to submit a notice to the Department of the changed discharge at least 30 days before such changes. The Department may require a construction permit and/or permit modification as a result of the proposed changes at the facility.

2. Twenty-Four Hour Reporting.

a. The permittee shall report any noncompliance which may endanger health or the environment. Relevant information shall be provided orally or via the current electronic method approved by the Department, within 24 hours from the time the permittee becomes aware of the circumstances, and shall be reported to the appropriate Regional Office during normal business hours or the Environmental Emergency Response hotline at 573-634-2436 outside of normal business hours. A written submission shall also be provided within five (5) business days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.



THE MISSOURI DEPARTMENT OF NATURAL RESOURCES MISSOURI CLEAN WATER COMMISSION REVISED

NOVEMBER 1, 2013

- b. The following shall be included as information which must be reported within 24 hours under this paragraph.
 - Any unanticipated bypass which exceeds any effluent limitation in the permit.
 - ii. Any upset which exceeds any effluent limitation in the permit.
 - Violation of a maximum daily discharge limitation for any of the pollutants listed by the Department in the permit required to be reported within 24 hours.
- c. The Department may waive the written report on a case-by-case basis for reports under paragraph 2. b. of this section if the oral report has been received within 24 hours.
- Sanitary Sewer Overflow Reporting. The following requirements solely reflect reporting obligations, and reporting does not necessarily reflect noncompliance, which may depend on the circumstances of the incident reported.
 - a. Twenty-Four Hour (24-Hour) Reporting. The permittee or owner shall report any incident in which wastewater escapes the collection system such that it reaches waters of the state or it may pose an imminent or substantial endangerment to the health or welfare of persons. Relevant information shall be provided orally or via the current electronic method approved by the Department within 24 hours from the time the permittee becomes aware of the incident. A written submission shall also be provided within five (5) business days of the time the permittee or owner becomes aware of the incident. The Department may waive the written report on a case-by-case basis if the oral report has been received within 24 hours. The five (5) day reports may be provided via the current electronic method approved by the Department.
 - b. Incidents Reported via Discharge Monitoring Reports (DMRs). The permittee or owner shall report any event in which wastewater escapes the collection system, which does not enter waters of the state and is not expected to pose an imminent or substantial endangerment to the health or welfare of persons, which occur typically during wet weather events. Relevant information shall be provided with the permittee's or owner's DMRs.
- Anticipated Noncompliance. The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements. The notice shall be submitted to the Department 60 days prior to such changes or activity.
- 5. Compliance Schedules. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of the permit shall be submitted no later than 14 days following each schedule date. The report shall provide an explanation for the instance of noncompliance and a proposed schedule or anticipated date, for achieving compliance with the compliance schedule requirement.
- 6. **Other Noncompliance.** The permittee shall report all instances of noncompliance not reported under paragraphs 2, 3, 4, and 7 of this section, at the time monitoring reports are submitted. The reports shall contain the information listed in paragraph 2. a. of this section.
- 7. Other Information. Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Department, it shall promptly submit such facts or information.

8. Discharge Monitoring Reports.

- Monitoring results shall be reported at the intervals specified in the permit.
- b. Monitoring results must be reported to the Department via the current method approved by the Department, unless the permittee has been granted a waiver from using the method. If the permittee has been granted a waiver, the permittee must use forms provided by the Department.
- c. Monitoring results shall be reported to the Department no later than the 28th day of the month following the end of the reporting period.

Section C – Bypass/Upset Requirements

1. **Definitions.**

- a. Bypass: the intentional diversion of waste streams from any portion of a treatment facility.
- Severe Property Damage: substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.
- c. Upset: an exceptional incident in which there is unintentional and temporary noncompliance with technology based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.

2. Bypass Requirements.

a. Bypass not exceeding limitations. The permittee may allow any bypass
to occur which does not cause effluent limitations to be exceeded, but
only if it also is for essential maintenance to assure efficient operation.
These bypasses are not subject to the provisions of paragraphs 2. b. and
2. c. of this section.

b Notice

- Anticipated bypass. If the permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible at least 10 days before the date of the bypass.
- ii. Unanticipated bypass. The permittee shall submit notice of an unanticipated bypass as required in Section B – Reporting Requirements, paragraph 5 (24-hour notice).

c. Prohibition of bypass.

- Bypass is prohibited, and the Department may take enforcement action against a permittee for bypass, unless:
 - Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
- 2. There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
- The permittee submitted notices as required under paragraph 2.
 b. of this section.
- ii. The Department may approve an anticipated bypass, after considering its adverse effects, if the Department determines that it will meet the three (3) conditions listed above in paragraph 2. c. i. of this section.

3. Upset Requirements.

- a. Effect of an upset. An upset constitutes an affirmative defense to an action brought for noncompliance with such technology based permit effluent limitations if the requirements of paragraph 3. b. of this section are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review.
- b. Conditions necessary for a demonstration of upset. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:
 - An upset occurred and that the permittee can identify the cause(s) of the upset;
 - ii. The permitted facility was at the time being properly operated; and
 - iii. The permittee submitted notice of the upset as required in Section B

 Reporting Requirements, paragraph 2. b. ii. (24-hour notice).
 - iv. The permittee complied with any remedial measures required under Section D – Administrative Requirements, paragraph 4.
- Burden of proof. In any enforcement proceeding, the permittee seeking to establish the occurrence of an upset has the burden of proof.



THE MISSOURI DEPARTMENT OF NATURAL RESOURCES MISSOURI CLEAN WATER COMMISSION REVISED

NOVEMBER 1, 2013

Section D – Administrative Requirements

- Duty to Comply. The permittee must comply with all conditions of this
 permit. Any permit noncompliance constitutes a violation of the Missouri
 Clean Water Law and Federal Clean Water Act and is grounds for
 enforcement action; for permit termination, revocation and reissuance, or
 modification; or denial of a permit renewal application.
 - a. The permittee shall comply with effluent standards or prohibitions established under section 307(a) of the Federal Clean Water Act for toxic pollutants and with standards for sewage sludge use or disposal established under section 405(d) of the CWA within the time provided in the regulations that establish these standards or prohibitions or standards for sewage sludge use or disposal, even if the permit has not yet been modified to incorporate the requirement.
 - The Federal Clean Water Act provides that any person who violates section 301, 302, 306, 307, 308, 318 or 405 of the Act, or any permit condition or limitation implementing any such sections in a permit issued under section 402, or any requirement imposed in a pretreatment program approved under sections 402(a)(3) or 402(b)(8) of the Act, is subject to a civil penalty not to exceed \$25,000 per day for each violation. The Federal Clean Water Act provides that any person who negligently violates sections 301, 302, 306, 307, 308, 318, or 405 of the Act, or any condition or limitation implementing any of such sections in a permit issued under section 402 of the Act, or any requirement imposed in a pretreatment program approved under section 402(a)(3) or 402(b)(8) of the Act, is subject to criminal penalties of \$2,500 to \$25,000 per day of violation, or imprisonment of not more than one (1) year, or both. In the case of a second or subsequent conviction for a negligent violation, a person shall be subject to criminal penalties of not more than \$50,000 per day of violation, or by imprisonment of not more than two (2) years, or both. Any person who knowingly violates such sections, or such conditions or limitations is subject to criminal penalties of \$5,000 to \$50,000 per day of violation, or imprisonment for not more than three (3) years, or both. In the case of a second or subsequent conviction for a knowing violation, a person shall be subject to criminal penalties of not more than \$100,000 per day of violation, or imprisonment of not more than six (6) years, or both. Any person who knowingly violates section 301, 302, 303, 306, 307, 308, 318 or 405 of the Act, or any permit condition or limitation implementing any of such sections in a permit issued under section 402 of the Act, and who knows at that time that he thereby places another person in imminent danger of death or serious bodily injury, shall, upon conviction, be subject to a fine of not more than \$250,000 or imprisonment of not more than 15 years, or both. In the case of a second or subsequent conviction for a knowing endangerment violation, a person shall be subject to a fine of not more than \$500,000 or by imprisonment of not more than 30 years, or both. An organization, as defined in section 309(c)(3)(B)(iii) of the CWA, shall, upon conviction of violating the imminent danger provision, be subject to a fine of not more than \$1,000,000 and can be fined up to \$2,000,000 for second or subsequent convictions.
 - c. Any person may be assessed an administrative penalty by the EPA Director for violating section 301, 302, 306, 307, 308, 318 or 405 of this Act, or any permit condition or limitation implementing any of such sections in a permit issued under section 402 of this Act. Administrative penalties for Class I violations are not to exceed \$10,000 per violation, with the maximum amount of any Class I penalty assessed not to exceed \$25,000. Penalties for Class II violations are not to exceed \$10,000 per day for each day during which the violation continues, with the maximum amount of any Class II penalty not to exceed \$125,000.
 - d. It is unlawful for any person to cause or permit any discharge of water contaminants from any water contaminant or point source located in Missouri in violation of sections 644.006 to 644.141 of the Missouri Clean Water Law, or any standard, rule or regulation promulgated by the commission. In the event the commission or the director determines that any provision of sections 644.006 to 644.141 of the Missouri Clean Water Law or standard, rules, limitations or regulations promulgated pursuant thereto, or permits issued by, or any final abatement order, other order, or determination made by the commission or the director, or any filing requirement pursuant to sections 644.006 to 644.141 of

the Missouri Clean Water Law or any other provision which this state is required to enforce pursuant to any federal water pollution control act, is being, was, or is in imminent danger of being violated, the commission or director may cause to have instituted a civil action in any court of competent jurisdiction for the injunctive relief to prevent any such violation or further violation or for the assessment of a penalty not to exceed \$10,000 per day for each day, or part thereof, the violation occurred and continues to occur, or both, as the court deems proper. Any person who willfully or negligently commits any violation in this paragraph shall, upon conviction, be punished by a fine of not less than \$2,500 nor more than \$25,000 per day of violation, or by imprisonment for not more than one year, or both. Second and successive convictions for violation of the same provision of this paragraph by any person shall be punished by a fine of not more than \$50,000 per day of violation, or by imprisonment for not more than two (2) years, or both.

2. Duty to Reapply.

- a. If the permittee wishes to continue an activity regulated by this permit
 after the expiration date of this permit, the permittee must apply for and
 obtain a new permit.
- b. A permittee with a currently effective site-specific permit shall submit an application for renewal at least 180 days before the expiration date of the existing permit, unless permission for a later date has been granted by the Department. (The Department shall not grant permission for applications to be submitted later than the expiration date of the existing permit.)
- c. A permittees with currently effective general permit shall submit an application for renewal at least 30 days before the existing permit expires, unless the permittee has been notified by the Department that an earlier application must be made. The Department may grant permission for a later submission date. (The Department shall not grant permission for applications to be submitted later than the expiration date of the existing permit.)
- Need to Halt or Reduce Activity Not a Defense. It shall not be a defense
 for a permittee in an enforcement action that it would have been necessary to
 halt or reduce the permitted activity in order to maintain compliance with the
 conditions of this permit.
- 4. **Duty to Mitigate.** The permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.
- 5. Proper Operation and Maintenance. The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems which are installed by a permittee only when the operation is necessary to achieve compliance with the conditions of the permit.

6. Permit Actions

- a. Subject to compliance with statutory requirements of the Law and Regulations and applicable Court Order, this permit may be modified, suspended, or revoked in whole or in part during its term for cause including, but not limited to, the following:
 - i. Violations of any terms or conditions of this permit or the law;
 - Having obtained this permit by misrepresentation or failure to disclose fully any relevant facts:
 - A change in any circumstances or conditions that requires either a temporary or permanent reduction or elimination of the authorized discharge; or
 - iv. Any reason set forth in the Law or Regulations.
- The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition.



THE MISSOURI DEPARTMENT OF NATURAL RESOURCES MISSOURI CLEAN WATER COMMISSION REVISED

NOVEMBER 1, 2013

7. **Permit Transfer.**

- a. Subject to 10 CSR 20-6.010, an operating permit may be transferred upon submission to the Department of an application to transfer signed by the existing owner and the new owner, unless prohibited by the terms of the permit. Until such time the permit is officially transferred, the original permittee remains responsible for complying with the terms and conditions of the existing permit.
- b. The Department may require modification or revocation and reissuance of the permit to change the name of the permittee and incorporate such other requirements as may be necessary under the Missouri Clean Water Law or the Federal Clean Water Act.
- c. The Department, within 30 days of receipt of the application, shall notify the new permittee of its intent to revoke or reissue or transfer the permit.
- 8. Toxic Pollutants. The permittee shall comply with effluent standards or prohibitions established under section 307(a) of the Federal Clean Water Act for toxic pollutants and with standards for sewage sludge use or disposal established under section 405(d) of the Federal Clean Water Act within the time provided in the regulations that establish these standards or prohibitions or standards for sewage sludge use or disposal, even if the permit has not yet been modified to incorporate the requirement.
- Property Rights. This permit does not convey any property rights of any sort, or any exclusive privilege.
- 10. Duty to Provide Information. The permittee shall furnish to the Department, within a reasonable time, any information which the Department may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. The permittee shall also furnish to the Department upon request, copies of records required to be kept by this permit.
- 11. Inspection and Entry. The permittee shall allow the Department, or an authorized representative (including an authorized contractor acting as a representative of the Department), upon presentation of credentials and other documents as may be required by law, to:
 - Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of the permit;
 - Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
 - Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
 - d. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Federal Clean Water Act or Missouri Clean Water Law, any substances or parameters at any location.

12. Closure of Treatment Facilities.

- a. Persons who cease operation or plan to cease operation of waste, wastewater, and sludge handling and treatment facilities shall close the facilities in accordance with a closure plan approved by the Department.
- b. Operating Permits under 10 CSR 20-6.010 or under 10 CSR 20-6.015 are required until all waste, wastewater, and sludges have been disposed of in accordance with the closure plan approved by the Department and any disturbed areas have been properly stabilized. Disturbed areas will be considered stabilized when perennial vegetation, pavement, or structures using permanent materials cover all areas that have been disturbed. Vegetative cover, if used, shall be at least 70% plant density over 100% of the disturbed area.

13. Signatory Requirement.

- All permit applications, reports required by the permit, or information requested by the Department shall be signed and certified. (See 40 CFR 122.22 and 10 CSR 20-6.010)
- b. The Federal Clean Water Act provides that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this

- permit, including monitoring reports or reports of compliance or noncompliance shall, upon conviction, be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than six (6) months per violation, or by both.
- c. The Missouri Clean Water Law provides that any person who knowingly makes any false statement, representation or certification in any application, record, report, plan, or other document filed or required to be maintained pursuant to sections 644.006 to 644.141 shall, upon conviction, be punished by a fine of not more than ten thousand dollars, or by imprisonment for not more than six months, or by both.
- 14. Severability. The provisions of the permit are severable, and if any provision of the permit, or the application of any provision of the permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of the permit, shall not be affected thereby.



THE MISSOURI DEPARTMENT OF NATURAL RESOURCES MISSOURI CLEAN WATER COMMISSION REVISED MAY 1, 2013

PART II - SPECIAL CONDITIONS – PUBLICLY OWNED TREATMENT WORKS SECTION A – INDUSTRIAL USERS

1. Definitions

Definitions as set forth in the Missouri Clean Water Laws and approved by the Missouri Clean Water Commission shall apply to terms used herein.

Significant Industrial User (SIU). Except as provided in the *General Pretreatment Regulation* 10 CSR 20-6.100, the term Significant Industrial User means:

- 1. All Industrial Users subject to Categorical Pretreatment Standards; and
- 2. Any other Industrial User that: discharges an average of 25,000 gallons per day or more of process wastewater to the Publicly-Owned Treatment Works (POTW) (excluding sanitary, noncontact cooling and boiler blowdown wastewater); contributes a process wastestream which makes up 5 percent or more of the average dry weather hydraulic or organic capacity of the POTW treatment plant; or is designated as such by the Control Authority on the basis that the Industrial User has a reasonable potential for adversely affecting the POTW's or for violating any Pretreatment Standard or requirement.

Clean Water Act (CWA) is the the federal Clean Water Act of 1972, 33 U.S.C. § 1251 et seq. (2002).

2. Identification of Industrial Discharges

Pursuant to 40 CFR 122.44(j)(1), all POTWs shall identify, in terms of character and volume of pollutants, any Significant Industrial Users discharging to the POTW subject to Pretreatment Standards under section 307(b) of the CWA and 40 CFR 403.

3. Application Information

Applications for renewal or modification of this permit must contain the information about industrial discharges to the POTW pursuant to 40 CFR 122.21(j)(6)

4. Notice to the Department

Pursuant to 40 CFR 122.42(b), all POTWs must provide adequate notice of the following:

- Any new introduction of pollutants into the POTW from an indirect discharger which would be subject to section 301 or 306 of CWA if it were directly discharging these pollutants; and
- Any substantial change into the volume or character of pollutants being introduced into that POTW by a source introducing pollutants into the POTW at the time of issuance of the permit.
- 3. For purposes of this paragraph, adequate notice shall include information on:
 - i. the quality and quantity of effluent introduced into the POTW, and
 - ii. any anticipated impact of the change on the quantity or quality of effluent to be discharged from the POTW.

For POTWs without an approved pretreatment program, the notice of industrial discharges which was not included in the permit application shall be made as soon as practicable. For POTWs with an approved pretreatment program, notice is to be included in the annual pretreatment report required in the special conditions of this permit. Notice may be sent to:

Missouri Department of Natural Resources Water Protection Program Attn: Pretreatment Coordinator P.O. Box 176 Jefferson City, MO 65102

THE MISSOURI DEPARTMENT OF NATURAL RESOURCES MISSOURI CLEAN WATER COMMISSION March 1, 2014

PART III – SLUDGE AND BIOSOLIDS FROM DOMESTIC AND INDUSTRIAL WASTEWATER TREATMENT FACILITIES

SECTION A – GENERAL REQUIREMENTS

- 1. This permit pertains to sludge requirements under the Missouri Clean Water Law and regulation for domestic wastewater and industrial process wastewater. This permit also incorporates applicable federal sludge disposal requirements under 40 CFR 503 for domestic wastewater. The Environmental Protection Agency (EPA) has principal authority for permitting and enforcement of the federal sludge regulations under 40 CFR 503 for domestic wastewater. EPA has reviewed and accepted these standard sludge conditions. EPA may choose to issue a separate sludge addendum to this permit or a separate federal sludge permit at their discretion to further address the federal requirements.
- 2. These Part III Standard Conditions apply only to sludge and biosolids generated at domestic wastewater treatment facilities, including public owned treatment works (POTW), privately owned facilities and sludge or biosolids generated at industrial facilities.
- 3. Sludge and Biosolids Use and Disposal Practices:
 - a. The permittee is authorized to operate the sludge and biosolids treatment, storage, use, and disposal facilities listed in the facility description of this permit.
 - b. The permittee shall not exceed the design sludge volume listed in the facility description and shall not use sludge disposal methods that are not listed in the facility description, without prior approval of the permitting authority.
 - c. The permittee is authorized to operate the storage, treatment or generating sites listed in the Facility Description section of this permit.
- 4. Sludge Received from other Facilities:
 - a. Permittees may accept domestic wastewater sludge from other facilities including septic tank pumpings from residential sources as long as the design sludge volume is not exceeded and the treatment facility performance is not impaired.
 - b. The permittee shall obtain a signed statement from the sludge generator or hauler that certifies the type and source of the sludge
- 5. These permit requirements do not supersede nor remove liability for compliance with county and other local ordinances.
- 6. These permit requirements do not supersede nor remove liability for compliance with other environmental regulations such as odor emissions under the Missouri Air Pollution Control Law and regulations.
- 7. This permit may (after due process) be modified, or alternatively revoked and reissued, to comply with any applicable sludge disposal standard or limitation issued or approved under Section 405(d) of the Clean Water Actor under Chapter 644 RSMo.
- 8. In addition to STANDARD CONDITIONS, the Department may include sludge limitations in the special conditions portion or other sections of a site specific permit.
- 9. Alternate Limits in the Site Specific Permit.
 - Where deemed appropriate, the Department may require an individual site specific permit in order to authorize alternate limitations:
 - a. A site specific permit must be obtained for each operating location, including application sites.
 - b. To request a site specific permit, an individual permit application, permit fee, and supporting documents shall be submitted for each operating location. This shall include a detailed sludge/biosolids management plan or engineering report.
- 10. Exceptions to these Standard Conditions may be authorized on a case-by-case basis by the Department, as follows:
 - a. The Department will prepare a permit modification and follow permit notice provisions as applicable under 10 CSR 20-6.020, 40 CFR 124.10, and 40 CFR 501.15(a)(2)(ix)(E). This includes notification of the owner of the property located adjacent to each land application site, where appropriate.
 - b. Exceptions cannot be granted where prohibited by the federal sludge regulations under 40 CFR 503.

SECTION B - DEFINITIONS

- 1. Best Management Practices include agronomic loading rates, soil conservation practices and other site restrictions.
- 2. Biosolids means organic fertilizer or soil amendment produced by the treatment of domestic wastewater sludge.
- 3. Biosolids land application facility is a facility where biosolids are spread onto the land at agronomic rates for production of food or fiber. The facility includes any structures necessary to store the biosolids until soil, weather, and crop conditions are favorable for land application.
- 4. Class A biosolids means a material that has met the Class A pathogen reduction requirements or equivalent treatment by a Process to Further Reduce Pathogens (PFRP) in accordance with 40 CFR 503.
- 5. Class B biosolids means a material that has met the Class B pathogen reduction requirements or equivalent treatment by a Process to Significantly Reduce Pathogens (PFRP) in accordance with 40 CFR 503.
- 6. Domestic wastewater means wastewater originating from the sanitary conveniences of residences, commercial buildings, factories and institutions; or co-mingled sanitary and industrial wastewater processed by a (POTW) or a privately owned facility.
- 7. Industrial wastewater means any wastewater, also known as process water, not defined as domestic wastewater. Per 40 CFR Part 122, process water means any water which, during manufacturing or processing, comes into direct contact with or results from the production or use of any raw material, intermediate product, finished product, byproduct, or waste product.
- 8. Mechanical treatment plants are wastewater treatment facilities that use mechanical devices to treat wastewater, including septic tanks, sand filters, extended aeration, activated sludge, contact stabilization, trickling filters, rotating biological discs, and other similar facilities. It does not include wastewater treatment lagoons and constructed wetlands for wastewater treatment.
- 9. Operating location as defined in 10 CSR 20-2.010 is all contiguous lands owned, operated or controlled by one (1) person or by two (2) or more persons jointly or as tenants in common.
- 10. Plant Available Nitrogen (PAN) is the nitrogen that will be available to plants during the growing seasons after biosolids application.
- 11. Public contact site is land with a high potential for contact by the public. This includes, but is not limited to, public parks, ball fields, cemeteries, plant nurseries, turf farms, and golf courses.
- 12. Sludge is the solid, semisolid, or liquid residue removed during the treatment of wastewater. Sludge includes septage removed from septic tanks or equivalent facilities. Sludge does not include carbon coal byproducts (CCBs)
- 13. Sludge lagoon is part of a mechanical wastewater treatment facility. A sludge lagoon is an earthen basin that receives sludge that has been removed from a wastewater treatment facility. It does not include a wastewater treatment lagoon or sludge treatment units that are not a part of a mechanical wastewater treatment facility.
- 14. Septage is the material pumped from residential septic tanks and similar treatment works (with a design population of less than 150 people). The standard for biosolids from septage is different from other sludges.

SECTION C - MECHANICAL WASTEWATER TREATMENT FACILITIES

- 1. Sludge shall be routinely removed from wastewater treatment facilities and handled according to the permit facility description and sludge conditions of this permit.
- 2. The permittee shall operate the facility so that there is no sludge discharged to waters of the state.
- Mechanical treatment plants shall have separate sludge storage compartments in accordance with 10 CSR 20, Chapter 8. Failure to remove sludge from these storage compartments on the required design schedule is a violation of this permit.

SECTION D - SLUDGE DISPOSED AT OTHER TREATMENT FACILITY OR CONTRACT HAULER

- 1. This section applies to permittees that haul sludge to another treatment facility for disposal or use contract haulers to remove and dispose of sludge.
- 2. Permittees that use contract haulers are responsible for compliance with all the terms of this permit including final disposal, unless the hauler has a separate permit for sludge or biosolids disposal issued by the Department; or the hauler transports the sludge to another permitted treatment facility.
- 3. Haulers who land apply septage must obtain a state permit.
- 4. Testing of sludge, other than total solids content, is not required if sludge is hauled to a municipal wastewater treatment facility or other permitted wastewater treatment facility, unless it is required by the accepting facility.

SECTION E - INCINERATION OF SLUDGE

- 1. Sludge incineration facilities shall comply with the requirements of 40 CFR 503 Subpart E; air pollution control regulations under 10 CSR 10; and solid waste management regulations under 10 CSR 80.
- 2. Permittee may be authorized under the facility description of this permit to store incineration ash in lagoons or ash ponds. This permit does not authorize the disposal of incineration ash. Incineration ash shall be disposed in accordance with 10 CSR 80; or if the ash is determined to be hazardous with 10 CSR 25.
- 3. In addition to normal sludge monitoring, incineration facilities shall report the following as part of the annual report, quantity of sludge incinerated, quantity of ash generated, quantity of ash stored, and ash used or disposal method, quantity, and location. Permittee shall also provide the name of the disposal facility and the applicable permit number.

SECTION F - SURFACE DISPOSAL SITES AND SLUDGE LAGOONS

- 1. Surface disposal sites of domestic facilities shall comply with the requirements in 40 CFR 503 Subpart C; air pollution control regulations under 10 CSR 10; and solid waste management regulations under 10 CSR 80.
- 2. Sludge storage lagoons are temporary facilities and are not required to obtain a permit as a solid waste management facility under 10 CSR 80. In order to maintain sludge storage lagoons as storage facilities, accumulated sludge must be removed routinely, but not less than once every two years unless an alternate schedule is approved in the permit. The amount of sludge removed will be dependent on sludge generation and accumulation in the facility. Enough sludge must be removed to maintain adequate storage capacity in the facility.
 - a. In order to avoid damage to the lagoon seal during cleaning, the permittee may leave a layer of sludge on the bottom of the lagoon, upon prior approval of the Department; or
 - b. Permittee shall close the lagoon in accordance with Section H.

SECTION G - LAND APPLICATION

- 1. The permittee shall not land apply sludge or biosolids unless land application is authorized in the facility description or the special conditions of the issued NPDES permit.
- 2. Land application sites within a 20 miles radius of the wastewater treatment facility are authorized under this permit when biosolids are applied for beneficial use in accordance with these standard conditions unless otherwise specified in a site specific permit. If the permittee's land application site is greater than a 20 mile radius of the wastewater treatment facility, approval must be granted from the Department.
- 3. Land application shall not adversely affect a threatened or endangered species or its designated critical habitat.
- 4. Biosolids shall not be applied unless authorized in this permit or exempted under 10 CSR 20, Chapter 6.
 - a. This permit does not authorize the land application of domestic sludge except for when sludge meets the definition of biosolids.
 - b. This permit authorizes "Class A or B" biosolids derived from domestic wastewater and/or process water sludge to be land applied onto grass land, crop land, timber or other similar agricultural or silviculture lands at rates suitable for beneficial use as organic fertilizer and soil conditioner.

5. Public Contact Sites:

Permittees who wish to apply Class A biosolids to public contact sites must obtain approval from the Department after two years of proper operation with acceptable testing documentation that shows the biosolids meet Class A criteria. A shorter length of testing will be allowed with prior approval from the Department. Authorization for land applications must be provided in the special conditions section of this permit or in a separate site specific permit.

- a. After Class B biosolids have been land applied, public access must be restricted for 12 months.
- b. Class B biosolids are only land applied to root crops, home gardens or vegetable crops whose edible parts will not be for human consumption.

6. Agricultural and Silvicultural Sites:

Septage – Based on Water Quality guide 422(WQ422) published by the University of Missouri

- a. Haulers that land apply septage must obtain a state permit
- b. Do not apply more than 30,000 gallons of septage per acre per year.
- c. Septage tanks are designed to retain sludge for one to three years which will allow for a larger reduction in pathogens and vectors, as compared to other mechanical type treatment facilities.
- d. To meet Class B sludge requirements, maintain septage at 12 pH for at least thirty (30) minutes before land application. 50 pounds of hydrated lime shall be added to each 1,000 gallons of septage in order to meet pathogen and vector stabilization for septage biosolids applied to crops, pastures or timberland.
- e. Lime is to be added to the pump truck and not directly to the septic tanks, as lime would harm the beneficial bacteria of the septic tank.

Biosolids - Based on Water Quality guide 423, 424, and 425 (WQ423, WQ424, WQ425) published by the University of Missouri:

- a. Biosolids shall be monitored to determine the quality for regulated pollutants
- b. The number of samples taken is directly related to the amount of sludge produced by the facility (See Section I of these Standard Conditions). Report as dry weight unless otherwise specified in the site specific permit. Samples should be taken only during land application periods. When necessary, it is permissible to mix biosolids with lower concentrations of biosolids as well as other suitable Department approved material to reach the maximum concentration of pollutants allowed.
- c. Table 1 gives the maximum concentration allowable to protect water quality standards

TABLE 1

Milligrams per kilogram dry weight
75
85
4,300
840
57
75
420
100
7,500

Land application is not allowed if the sludge concentration exceeds the maximum limits for any of these pollutants

d. The low metal concentration biosolids has reduced requirements because of its higher quality and can safely be applied for 100 years or longer at typical agronomic loading rates. (See Table 2)

TABLE 2

Biosolids Low Metal Concentration ¹	
Pollutant	Milligrams per kilogram dry weight
Arsenic	41
Cadmium	39
Copper	1,500
Lead	300
Mercury	17
Nickel	420
Selenium	36
Zinc	2,800

You may apply low metal biosolids without tracking cumulative metal limits, provided the cumulative application of biosolids does not exceed 500 dry tons per acre.

4

e. Each pollutant in Table 3 has an annual and a total cumulative loading limit, based on the allowable pounds per acre for various soil categories.

TABLE 3

D-II. tt	CEC	15+	CEC 5 to 15		CEC 0 to 5	
Pollutant	Annual	Total ¹	Annual	Total ¹	Annual	Total ¹
Arsenic	1.8	36.0	1.8	36.0	1.8	36.0
Cadmium	1.7	35.0	0.9	9.0	0.4	4.5
Copper	66.0	1,335.0	25.0	250.0	12.0	125.0
Lead	13.0	267.0	13.0	267.0	13.0	133.0
Mercury	0.7	15.0	0.7	15.0	0.7	15.0
Nickel	19.0	347.0	19.0	250.0	12.0	125.0
Selenium	4.5	89.0	4.5	44.0	1.6	16.0
Zinc	124.0	2,492.0	50.0	500.0	25.0	250.0

¹ Total cumulative loading limits for soils with equal or greater than 6.0 pH (salt based test) or 6.5 pH (water based test)

TABLE 4 - Guidelines for land application of other trace substances ¹

	aton or other trace supplantes					
Cumulative Loading						
Pollutant	Pounds per acre					
Aluminum	4,000 ²					
Beryllium	100					
Cobalt	50					
Fluoride	800					
Manganese	500					
Silver	200					
Tin	1,000					
Dioxin	(10 ppt in soil) ³					
Other	4					

Design of land treatment systems for Industrial Waste, 1979. Michael Ray Overcash, North Carolina State University and Land Treatment of Municipal Wastewater, EPA 1981.)

Best Management Practices - Based on Water Quality guide 426 (WQ426) published by the University of Missouri

- a. Use best management practices when applying biosolids.
- b. Biosolids cannot discharge from the land application site
- c. Biosolid application is subject to the Missouri Department of Agriculture State Milk Board concerning grazing restrictions of lactating dairy cattle.
- d. Biosolid application must be in accordance with section 4 of the Endangered Species Act.
- e. Do not apply more than the agronomic rate of nitrogen needed.
- f. The applicator must document the Plant Available Nitrogen (PAN) loadings, available nitrogen in the soil and crop removals unless the nitrogen content of the biosolids does not exceed 50,000 milligrams per kilogram of total nitrogen on a dry weight basis and biosolids application rate is less than two dry tons per acre per year.
 - i. PAN can be determined as follows and is in accordance with WQ426
 (Nitrate + nitrite nitrogen) + (organic nitrogen x 0.2) + (ammonia nitrogen x volatilization factor¹).
 ¹ Volatilization factor is 0.7 for surface application and 1 for subsurface application.

² This applies for a soil with a pH between 6.0 and 7.0 (salt based test) or a pH between 6.5 to 7.5 (water based test). Case-by-case review is required for higher pH soils.

Total Dioxin Toxicity Equivalents (TEQ) in soils, based on a risk assessment under 40 CFR 744, May 1998.

Case by case review. Concentrations in sludge should not exceed the 95th percentile of the National Sewage Sludge Survey, EPA, January 2009.

- g. Buffer zones are as follows:
 - 300 feet of a water supply well, sinkhole, lake, pond, water supply reservoir or water supply intake in a stream:
 - 300 feet of a losing stream, no discharge stream, stream stretches designated for whole body contact recreation, wild and scenic rivers, Ozark National Scenic Riverways or outstanding state resource waters as listed in the Water Quality Standards, 10 CSR 20-7.031;
 - iii. 150 feet if dwellings;
 - iv. 100 feet of wetlands or permanent flowing streams;
 - v. 50 feet of a property line or other waters of the state, including intermittent flowing streams.
- h. Slope limitation for application sites are as follows;
 - i. A slope 0 to 6 percent has no rate limitation
 - ii. Applied to a slope 7 to 12 percent, the applicator may apply biosolids when soil conservation practices are used to meet the minimum erosion levels
 - iii. Slopes > 12, apply biosolids only when grass is vegetated and maintained with at least 80 percent ground cover at a rate of two dry tons per acre per year or less.
- No biosolids may be land applied in an area that it is reasonably certain that pollutants will be transported into waters of the state.
- j. Do not apply biosolids to sites with soil that is snow covered, frozen or saturated with liquid without prior approval by the Department.
- k. Biosolids / sludge applicators must keep detailed records up to five years.

SECTION H - CLOSURE REQUIREMENTS

- 1. This section applies to all wastewater facilities (mechanical, industrial, and lagoons) and sludge or biosolids storage and treatment facilities and incineration ash ponds. It does not apply to land application sites.
- 2. Permittees of a domestic wastewater facility who plan to cease operation must obtain Department approval of a closure plan which addresses proper removal and disposal of all residues, including sludge, biosolids. Mechanical plants, sludge lagoons, ash ponds and other storage structures must obtain approval of a closure plan from the Department. Permittee must maintain this permit until the facility is closed in accordance with the approved closure plan per 10 CSR 20 6.010 and 10 CSR 20 6.015.
- 3. Residuals that are left in place during closure of a lagoon or earthen structure or ash pond shall not exceed the agricultural loading rates as follows:
 - a. Residuals shall meet the monitoring and land application limits for agricultural rates as referenced in Section H of these standard conditions.
 - b. If a wastewater treatment lagoon has been in operation for 15 years or more without sludge removal, the sludge in the lagoon qualifies as a Class B biosolids with respect to pathogens due to anaerobic digestion, and testing for fecal coliform is not required. For other lagoons, testing for fecal coliform is required to show compliance with Class B biosolids limitations. In order to reach Class B biosolids requirements, fecal coliform must be less than 2,000,000 colony forming units or 2,000,000 most probable number. All fecal samples must be presented as geometric mean per gram.
 - c. The allowable nitrogen loading that may be left in the lagoon shall be based on the plant available nitrogen (PAN) loading. For a grass cover crop, the allowable PAN is 300 pounds/acre.
 - i. PAN can be determined as follows:

(Nitrate + nitrite nitrogen) + (organic nitrogen x 0.2) + (ammonia nitrogen x volatilization factor¹).

¹Volatilization factor is 0.7 for surface application and 1 for subsurface application.

- 4. When closing a domestic wastewater treatment lagoon with a design treatment capacity equal or less than 150 persons, the residuals are considered "septage" under the similar treatment works definition. See Section B of these standard conditions. Under the septage category, residuals may be left in place as follows:
 - a. Testing for metals or fecal coliform is not required
 - b. If the wastewater treatment lagoon has been in use for less than 15 years, mix lime with the sludge at a rate of 50 pounds of hydrated lime per 1000 gallons (134 cubic feet) of sludge.
 - c. The amount of sludge that may be left in the lagoon shall be based on the plant available nitrogen (PAN) loading. 100 dry tons/acre of sludge may be left in the basin without testing for nitrogen. If 100 dry tons/acre or more will be left in the lagoon, test for nitrogen and determine the PAN using the calculation above. Allowable PAN loading is 300 pounds/acre.

- 5. Residuals left within the domestic lagoon shall be mixed with soil on at least a 1 to 1 ratio, the lagoon berm shall be demolished, and the site shall be graded and contain ≥70% vegetative density over 100% of the site so as to avoid ponding of storm water and provide adequate surface water drainage without creating erosion.
- Lagoons and/or earthen structure and/or ash pond closure activities shall obtain a storm water permit for land disturbance activities that equal or exceed one acre in accordance with 10 CSR 20-6.200
- 7. When closing a mechanical wastewater and/or industrial process wastewater plant; all sludge must be cleaned out and disposed of in accordance with the Department approved closure plan before the permit for the facility can be terminated.
 - a. Land must be stabilized which includes any grading, alternate use or fate upon approval by the Department, remediation, or other work that exposes sediment to stormwater per 10 CSR 20-6.200. The site shall be graded and contain ≥70% vegetative density over 100% of the site, so as to avoid ponding of storm water and provide adequate surface water drainage without creating erosion.
 - b. Per 10 CSR 20-6.015(4)(B)6, Hazardous Waste shall not be land applied or disposed during industrial and mechanical plant closures unless in accordance with Missouri Hazardous Waste Management Law and Regulations under 10 CSR 25.
 - c. After demolition of the mechanical plant / industrial plant, the site must only contain clean fill defined in RSMo 260.200 (5) as uncontaminated soil, rock, sand, gravel, concrete, asphaltic concrete, cinderblocks, brick, minimal amounts of wood and metal, and inert solids as approved by rule or policy of the Department for fill or other beneficial use. Other solid wastes must be removed.
- 8. If sludge from the domestic lagoon or mechanical treatment plant exceeds agricultural rates under Section G and/or H, a landfill permit or solid waste disposal permit must be obtained if the permittee chooses to seek authorization for onsite sludge disposal under the Missouri Solid Waste Management Law and regulations per 10 CSR 80, and the permittee must comply with the surface disposal requirements under 40 CFR 503, Subpart C.

SECTION I – MONITORING FREQUENCY

1. At a minimum, sludge or biosolids shall be tested for volume and percent total solids on a frequency that will accurately represent sludge quantities produced and disposed. Please see the table below.

TABLE 5

Design Sludge	Monitoring Frequency (See Notes 1 and 2)					
Production (dry tons per year)	Metals, Pathogens and Vectors	Pathogens and Nitrogen TKN ¹		Priority Pollutants and TCLP ³		
0 to 100	1 per year	1 per year	1 per month	1 per year		
101 to 200	biannual	biannual	1 per month	1 per year		
201 to 1,000	quarterly	quarterly	1 per month	1 per year		
1,001 to 10,000	1 per month	1 per month	1 per week	4		
10,001 +	1 per week	1 per week	1 per day	4		

¹ Test total Kjeldahl nitrogen, if biosolids application is 2 dry tons per acre per year or less

Note 1: Total solids: A grab sample of sludge shall be tested one per day during land application periods for percent total solids. This data shall be used to calculate the dry tons of sludge applied per acre.

Note 2: Total Phosphorus: Total phosphorus and total potassium shall be tested at the same monitoring frequency as metals.

² Calculate plant available nitrogen, if biosolids application is more than 2 dry tons per acre per vear.

Priority pollutants (40 CFR 122.21, Appendix D, Tables II and III) and toxicity characteristic leaching procedure (40 CFR 261.24) is required only for permit holders that must have a pretreatment program.

⁴ One sample for each 1,000 dry tons of sludge.

- 2. If you own a wastewater treatment lagoon or sludge lagoon that is cleaned out once a year or less, you may choose to sample only when the sludge is removed or the lagoon is closed. Test one composite sample for each 100 dry tons of sludge or biosolids removed from the lagoon during the year within the lagoon at closing. Composite sample must represent various areas at one-foot depth.
- 3. Additional testing may be required in the special conditions or other sections of the permit. Permittees receiving industrial wastewater may be required to conduct additional testing upon request from the Department.
- 4. At this time, the Department recommends monitoring requirements shall be performed in accordance with, "POTW Sludge Sampling and Analysis Guidance Document," United States Environmental Protection Agency, August 1989, and the subsequent revisions.

SECTION J - RECORD KEEPING AND REPORTING REQUIREMENTS

- 1. The permittee shall maintain records on file at the facility for at least five years for the items listed in these standard conditions and any additional items in the Special Conditions section of this permit. This shall include dates when the sludge facility is checked for proper operation, records of maintenance and repairs and other relevant information.
- 2. Reporting period
 - a. By January 28th of each year, an annual report shall be submitted for the previous calendar year period for all mechanical wastewater treatment facilities, sludge lagoons, and sludge or biosolids disposal facilities.
 - b. Permittees with wastewater treatment lagoons shall submit the above annual report only when sludge or biosolids are removed from the lagoon during the report period or when the lagoon is closed.
- 3. Report Forms. The annual report shall be submitted on report forms provided by the Department or equivalent forms approved by the Department.
- 4. Reports shall be submitted as follows:

Major facilities (those serving 10,000 persons or 1 million gallons per day) shall report to both the Department and EPA. Other facilities need to report only to the Department. Reports shall be submitted to the addresses listed as follows:

DNR regional office listed in your permit (see cover letter of permit) ATTN: Sludge Coordinator

EPA Region VII Water Compliance Branch (WACM) Sludge Coordinator 11201 Renner Blvd. Lenexa, KS 66219

- 5. Annual Report Contents. The annual report shall include the following:
 - Sludge and biosolids testing performed. Include a copy or summary of all test results, even if not required by the permit.
 - b. Sludge or biosolids quantity shall be reported as dry tons for quantity generated by the wastewater treatment facility, the quantity stored on site at the end of the year, and the quantity used or disposed.
 - c. Gallons and % solids data used to calculate the dry ton amounts.
 - d. Description of any unusual operating conditions.
 - e. Final disposal method, dates, and location, and person responsible for hauling and disposal.
 - i. This must include the name, address for the hauler and sludge facility. If hauled to a municipal wastewater treatment facility, sanitary landfill, or other approved treatment facility, give the name of that facility.
 - ii. Include a description of the type of hauling equipment used and the capacity in tons, gallons, or cubic feet.

f. Contract Hauler Activities

If contract hauler, provide a copy of a signed contract from the contractor. Permittee shall require the contractor to supply information required under this permit for which the contractor is responsible. The permittee shall submit a signed statement from the contractor that he has complied with the standards contained in this permit, unless the contract hauler has a separate sludge or biosolids use permit.

g. Land Application Sites:

- i. Report the location of each application site, the annual and cumulative dry tons/acre for each site, and the landowners name and address. The location for each spreading site shall be given as a legal description for nearest ¼, ¼, Section, Township, Range, and county, or UTM coordinates. If biosolids application exceeds 2 dry tons/acre/year, reports biosolids nitrogen results, Plant Available Nitrogen (PAN) in pounds/acre, crop nitrogen requirement.
- ii. If the "Low Metals" criteria are exceeded, report the annual and cumulative pollutant loading rates in pounds per acre for each applicable pollutant, and report the percent of cumulative pollutant loading which has been reached at each site.
- iii. Report the method used for compliance with pathogen and vector attraction requirements.
- iv. Report soil test results for pH, CEC, and phosphorus. If none was tested during the year, report the last date when tested and results.





MISSOURI DEPARTMENT OF NATURAL RESOURCES WATER PROTECTION PROGRAM, WATER POLLUTION CONTROL BRANCH OCT 9 2013

FORM B2 - APPLICATION FOR CONSTRUCTION OR OPERATING PERMIT FOR FACILITIES WHICH RECEIVE PRIMARILY DOMESTIC WASTE AND HAVE A DESTEN FROM PROPERTY OF THOUSAND 100,000 GALLONS PER DAY

MO0042013		Newton
PERMIT NO.		COUNTY
City of Diamond		
FACILITY NAME		,

APPLICATION OVERVIEW

Form B2 has been developed in a modular format and consists of Parts A, B and C and a Supplemental Application Information (Parts D, E, F and G) packet. All applicants must complete Parts A, B and C. Some applicants must also complete parts of the Supplemental Application Information packet. The following items explain which parts of Form B2 you must complete. Submittal of an incomplete application may result in the application being returned.

BASIC APPLICATION INFORMATION

- A. Basic Application Information for all Applicants. All applicants must complete Part A.
- B. Additional Application Information for all Applicants. All applicants must complete Part B.
- C. Certification. All applicants must complete Part C.

SUPPLEMENTAL APPLICATION INFORMATION

- Expanded Effluent Testing Data. A treatment works that discharges effluent to surface water of the United States and meets one or more of the following criteria must complete Part D - Expanded Effluent Testing Data: 232425262728
 - Has a design flow rate greater than or equal to 1 million gallons per day.
 - 2. Is required to have or currently has a pretreatment program.
 - 3. Is otherwise required by the permitting authority to provide the information.
- RECU N Toxicity Testing Data. A treatment works that meets one or more of the following criteria must complete Page 20 Toxicity Testing Data:
 - Has a design flow rate greater than or equal to 1 million gallons per day. 1.
 - 2. Is required to have or currently has a pretreatment program.
 - Is otherwise required by the permitting authority to provide the information. 3.
- Industrial User Discharges and Resource Conservation and Recovery Act / Comprehensive Environmental Response, Compensation and Liability Act Wastes. A treatment works that accepts process wastewater from any significant industrial users, also known as SIUs, or receives a Resource Conservation and Recovery Act or CERCLA wastes must complete Part F - Industrial User Discharges and Resource Conservation and Recovery Act /CERCLA Wastes.

SIUs are defined as:

- All Categorical Industrial Users, or CIUs, subject to Categorical Pretreatment Standards under 40 Code of Federal Regulations 403.6 and 40 Code of Federal Regulations 403.6 and 40 CFR Chapter 1, Subchapter N.
- Any other industrial user that meets one or more of the following:
 - Discharges an average of 25,000 gallons per day or more of process wastewater to the treatment works (with certain exclusions).
 - Contributes a process waste stream that makes up five percent or more of the average dry weather ii. hydraulic or organic capacity of the treatment plant.
 - Is designated as an SIU by the control authority.
- Combined Sewer Systems. A treatment works that has a combined sewer system must complete Part G -Combined Sewer Systems.

ALL APPLICANTS MUST COMPLETE PARTS A, B and C

18 1926

MO 780-1805 (09-08)



DOT 9 20 3

MISSOURI DEPARTMENT OF NATURAL RESOURCHATER PROTECTION PROGRAM WATER PROTECTION PROGRAM, WATER POLLUTION CONTROL BRANCH FORM B2 – APPLICATION FOR CONSTRUCTION OR OPERATING PERMIT FOR FACILITIES WHICH RECEIVE PRIMARILY DOMESTIC WASTE AND HAVE A DESIGN FLOW MORE THAN 100,000 GALLONS PER DAY

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PART A - BASIC APPLICATION INFORMATION			
This application is for:			0700
☐ An operating permit and antidegradation review public notice.		1	\$262728293
☐ A construction permit following an appropriate operating permit and antidegradation review	public no	otice (\$
☐ A construction permit, a concurrent operating permit and antidegradation review public not	ce.	/3	pergraph !
☐ A construction permit (submitted before Aug. 30, 2008 or antidegradation review is not req	uired).	21.	SEP 2(
☐ An operating permit for a new or unpermitted facility. Construction Permit #		92021	JL.
An operating permit renewal: Permit #MO- 0042013 Expiration Date 040920	4	13.	
An operating permit modification: Permit #MO Reason:			Ugipic
1.1 Is this a Federal/State Funded Project? Yes No Funding Agency/	Project #:		
1.2 Is the appropriate fee included with the application (See instructions for appropriate fee)?	Yes	□ No	
2. FACILITY			
Diamond WWTF	417	-325~	423/)
ADDRESS (PHYSICAL)	STATE		ZIP
80 d W. Market St. Diamond	_ /M	0	64840
2.1 LEGAL DESCRIPTION (Plant Site): WE 14, WW14, 14, Sec. 69, Tal.W.	R 3/	Cou	nty Newton
2.2 UTM Coordinates Easting (X): 36 99373 Northing (Y): -694/9375 For Universal Transverse Mercator (UTM), Zone 15 North referenced to North American Datum 1983	(NAD83)		
3. OWNER			
NAME TITLE	TELEPHO	NE NUMBER W	TH AREA CODE
City of Diamond	417	- 325	5-4220
301 E Market St. Diamand	STATE		(2)/84/)
3.1 Request review of draft permit prior to Public Notice? Yes No	1 100		Ψ70/ C
4. CONTINUING AUTHORITY: Permanent organization which will serve as the continuing auth	ority for t	he operation	<u> </u>
maintenance and modernization of the facility.	Only lor t	ne operanc	,,,
NAME	CITY		
Jane as owner			
ADDRESS CERTIFICATE NUMBER (IF APPLICABLE) 3929	STATE		ZIP
5. OPERATOR	1		
Doane Linch TITLE Was newton	TELEPHOI	NE NUMBER W	7847
6. FACILITY CONTACT			
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7.	ADDITIONAL FACILITY INFORMA	ATION					
7.1 B	RIEF DESCRIPTION OF FACILITIES					***	, i
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7.2	TOPOGRAPHIC MAP. ATTACH TO TO BEYOND FACILITY PROPERTY BOUT INFORMATION. (YOU MAY SUBMIT It a. The area surrounding the treatment b. The location of the downstream lac. The major pipes or other structure	NDARIES. THIS MAP MUS MORE THAN ONE MAP IF nt plant, including all unit pro ndowner(s). (See Item 10.)	ST SHOW THE OUTLI ONE MAP DOES NO occsses.	NE OF THE FACIL SHOW THE ENT!	ITY AND THE IRE AREA.)	FOLLOWING	
	 c. The major pipes or other structure treated wastewater is discharged f d. The actual point of discharge. e. Wells, springs, other surface water 	from the treatment plant. In	clude outfalls from byp	pass piping, if applic	cable.	•	
	works, and 2) listed in public recor f. Any areas where the sewage slud g. If the treatment works receives wa by truck, rail or special pipe, show or disposed.	d or otherwise known to the ge produced by the treatme ste that is classified as haza	e applicant. Int works is stored, trea ardous under the Reso	ated or disposed. ource Conservation	and Recovery	y Act, or RCRA,	
7.3	PROCESS FLOW DIAGRAM OR SCHI ALSO, PROVIDE A WATER BALANCE AND DECHLORINATION). THE WATE POINTS AND APPROXIMATE DAILY F OF THE DIAGRAM.	SHOWING ALL TREATME ER BALANCE MUST SHOV	ENT UNITS, INCLUDIA V DAILY AVERAGE FI	NG DISINFECTION LOW RATES AT IN	(E.G. CHLOF	RINATION DISCHARGE	
7.4	FACILITY SIC CODE DISCHA	ARGE SIC CODE:	FACILITY NAICS	CODE:	DISCHARG	E NAICS CODE:	
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7.8	Yes No □ LENGTH OF THE SANITARY SEWER	(If Yes, attach an expla COLLECTION SYSTEM IN		HONY	izains/	/Wet seasons	
7.9	_ 8 m, \ 0 S IS INDUSTRIAL WASTE DISCHARGED	TO THE FACILITY IDENT	IFIED IN ITEM 2?	Yes 🗌	No 🏻		
7.10	WILL THE DISCHARGE BE CONTINUO					•	
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7.13	HAS A WASTE LOAD ALLOCATION ST	TUDY BEEN COMPLETED					
7.14				IE LAST FIVE YEA	RS.		
8.	LABORATORY CONTROL INFOR						
8.1	LABORATORY WORK CONDUCTE		NEL				
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9.1 IS THE SLUDGE A HAZARDOUS WAS		10 CSR 25?		AS DEM
Yes ☐ No 🔽				(6)
9.2 SLUDGE PRODUCTION, INCLUDING S		ROMOTHERS		ear SIDIELZ
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9.3 CAPACITY OF SLUDGE HOLDING STR9.4 SLUDGE STORAGE PROVIDED	RUCTURES	-		
Cubic Feet Days of Storage	Average	Percent Solids of Sludge	No Sludge S	Storage is Provided 64
9.5 TYPE OF STORAGE			,	-17 -1
☐ Holding Tank ☐ Basin	☐ Building	☐ Concrete Pad 🔀 Other	(Describe) Lagor 5	elt Stoage
9.6 SLUDGE TREATMENT ☐ Anaerobic Digester ☐ Storage	e Tank	☐ Lime Stabilization	∑ Lagoon	·
	leat Drying	☐ Composting	Other (Attach Des	cription)
9.7 SLUDGE USE OR DISPOSAL	_	1		
☐ Land Application ☑ Contrac ☐ Surface Disposal (Sludge Disposal L		lauled to Another Treatment Facil	ity ☐ Solid Wa: ☐ Incinerati	
☐ Other (Attach Explanation Sheet)	agoon, Sludge Held I	roll wore mail I wo reals)	manerau	011
9.8 PERSON RESPONSIBLE FOR HAULIN	NG SLUDGE TO DISI	POSAL FACILITY		
NAME AL N				
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CONTACT PERSON		TELEPHONE NUMBER WITH AREA CO		
			MO-	
9.9 SLUDGE USE OR DISPOSAL FACILITY By Applicant By By Others (Complete Be		•		
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TM Coordinates Easting (X): 3LSQ3) Northing (Y):OQ4 OQ4	OUTFALL NUMBER 🚫 \					
TM Coordinates Easting (X): 3L5937 Northing (Y): -0 1477 375 For Universal Transverse Mercator (UTM), Zone 15 North referenced to North American Datum 1983 (NAD83) Distance from Shore (If Applicable) C. Depth Below Surface (If Applicable) mg/L of CacO3 Average Daily Flow Rate mgd TM Coordinates Easting (X): 3L5937 Northing (Y): -0 1477 375 For Universal Transverse Mercator (UTM), Zone 15 North referenced to North American Datum 1983 (NAD83) Distance from Shore (If Applicable) D. Average Daily Flow Rate mgd TM Coordinates Easting (X): 3L5937 North referenced to North American Datum 1983 (NAD83) Distance from Shore (If Applicable) D. Average Daily Flow Rate mgd TM Coordinates Easting (X): 3L5937 North referenced to North American Datum 1983 (NAD83) D. Average Daily Flow Rate mgd TM Coordinates Easting (X): 3L5937 North American Datum 1983 (NAD83) D. Average Daily Flow Rate mgd TM Coordinates Easting (X): 3L5937 North American Datum 1983 (NAD83) D. Average Daily Flow Rate mgd TM Coordinates Easting (X): 3L5937 North American Datum 1983 (NAD83) D. Average Daily Flow Rate mgd TM Coordinates Easting (X): 3L5937 North American Datum 1983 (NAD83) D. Average Daily Flow Rate mgd TM Coordinates Easting (X): 3L5937 North American Datum 1983 (NAD83) D. Average Daily Flow Rate mgd TM Coordinates Easting (X): 3L5937 North American Datum 1983 (NAD83) D. Average Daily Flow Rate mgd TM Coordinates Daily Flow Per Discharge:		0.41	- 25	_		
For Universal Transverse Mercator (UTM), Zone 15 North referenced to North American Datum 1983 (NAD83) Distance from Shore (If Applicable) C. Depth Below Surface (If Applicable) mg/L of CaCO ₃ Does this outfall have either an intermittent or periodic discharge? If t. Does this outfall have either an intermittent or periodic discharge? Yes No If Yes, Provide the following information: Under Unde	W Section Oq	Township AUV	Range <u>3/</u> ♥ □ E	ΣįW		
Distance from Shore (If Applicable) ft. Does this outfall have either an intermittent or periodic discharge? Discharge: Distance from Shore (If Applicable)	For Universal Transverse Mercator (U	JTM), Zone 15 North refe	erenced to North American D	atum 1983 (NA	(D83)	
ft	B. Distance from Shore	C. Depth Belo	ow Surface			ow Rate
Does this outfall have either an intermittent or periodic discharge? Yes		, , , , ,	DIE)	_	mgd	
No			ne?			
Average Flow Per Discharge						
Outfall Equipped with a Diffuser?	Number of Days Per Year Discharge Aver	age Duration of Each	Average Flow Per	1.	_	ch Discharge
Outfall Equipped with a Diffuser?			I	(
DESCRIPTION OF RECEIVING WATER Name of Receiving Water UNAMED TO BOTH TO COURT Broad Name of Watershed (If Known) COURT Broad U.S. Soil Conservation Service 14-Digit Watershed Code (If Known) 10 70207 - 170004 U.S. Geological Survey 8-Digit Hydrologic Cataloging Unit Code (If Known) (P) 03 24/ Critical Flow of Receiving Stream (If Applicable) Acute cfs		 	liigu			د ۱٬۱۹۵
Name of Receiving Water Color Color						
Name of Watershed (If Known) Corver Branch Name of State Management/River Basin (If Known) Critical Flow of Receiving Stream (If Applicable) Acute cfs Chronic cfs Corver Branch U.S. Soil Conservation Service 14-Digit Watershed Code (If Known) U.S. Geological Survey 8-Digit Hydrologic Cataloging Unit Code (If Known) P 03 2 4/ B. Total Hardness of Receiving Stream at Critical Low Flow (If Applicable) mg/L of CaCO ₃						
Name of Watershed (If Known) ON Broach Name of State Management/River Basin (If Known) U.S. Soil Conservation Service 14-Digit Watershed Code (If Known) U.S. Geological Survey 8-Digit Hydrologic Cataloging Unit Code (If Known) ON DO		start to Car	ver Brench			
Name of State Management/River Basin (If Known) U.S. Geological Survey 8-Digit Hydrologic Cataloging Unit Code (If Known) (P) 0324/ B. Total Hardness of Receiving Stream at Critical Low Flow (If Applicable) Acute cfs	B. Name of Watershed (If Known)	,	U.S. Soil Conservation Se	ervice 14-Digit	Natershed Co	de (If Known)
Critical Flow of Receiving Stream (If Applicable) Acute cfs Chronic cfs Known) (P) 0324/ B. Total Hardness of Receiving Stream at Critical Low Flow (If Applicable) mg/L of CaCO ₃	Corver Branch	-1- (1517				1-4 O-2 - 44
Critical Flow of Receiving Stream (If Applicable) Acute cfs Chronic cfs B. Total Hardness of Receiving Stream at Critical Low Flow (If Applicable) mg/L of CaCO ₃	B. Name of State Management/River Ba	sin (if Known)			c Cataloging l	Unit Code (If
Acute cfs Chronic cfs (If Applicable) mg/L of CaCO ₃	(1)		(P)	0324/		
mg/L of CaCO₃		• • •		eiving Stream	at Critical Low	Flow
	Acute cfs Chronic	: cfs				
	O 780-1805 (09-08)		mg/L or CaCO₃			_

FACILITY NAME	1 163-4-1	<u></u>	PERMIT NO.	11 013		OUTFAI	L NO.		
Diamon			MO-0 04		IED)		00		23262
20.6 DESCRIPTION	ON OF TREA	_	IFURMATION	(CONTIN	JED)				20 20 267
			PROVIDED?	Check All Th	at Apply				N L
☐ Primary	□s	econdary	☐ Advanced	√ 210	ther (Describe)	Lagar			117.
			'AL RATES (AS		•				SEP
Design BOD₅ Remova	•					Design SS Remo	oval _	% \	SEP DEQ/
Design P Removal C. What type o			sign N Remova			Otheraries by season,		<u>% \</u>	32
C. Vinat type o	i disiniection	is used for the	e eniuent nom t	ms outlan?	ii disiniection v	aries by season,	piease describe	r.	Ta
If disinfection is by chl	orination, is d	lechlorination	used for this ou	ıtfall?	☐ Yes	□ No			राश्वाका हा
Does the treatment pla	ant have post	aeration?			☐ Yes	□ No	_		
DATA FOR EFFLUEN T INFORMAT METHODS. APPROPRI	THE FOLLON IS DISCHAR ION REPORT IN ADDITIO	WING PARAN IGED. DO NO FED MUST BE IN, THIS DATA	METERS. PRO' DT INCLUDE IN E BASED ON D A MUST COMP	VIDE THE IN NFORMATIO NATA COLLE PLY WITH QA	IDICATED EFF N OF COMBIN CTED THROU VQC REQUIRI	RS OF THE U.S. LUENT DATA F ED SEWER OVE GH ANALYSIS C EMENTS OF 40 (VALYTES NOT A	OR EACH OUT ERFLOWS IN T CONDUCTED U CFR PART 136	FALL THI THIS SECT ISING 40 (AND OTH	ROUGH WHICH TON. ALL CFR PART 136 IER
OUTFALL NUMBER						_			
PARA	METER			NUM DAILY			AVERAGE D		
			VAI	LUE	UNITS	VALUE	UNITS	NO. C	OF SAMPLES
pH (Minimum)					S.U.		S.U.		
pH (Maximum)					S.U.		S.U.		
FLOW RATE					MGD		MGD		
TEMPERATURE (V	Vinter)				°C		°C		
TEMPERATURE (S	ummer)				°C		°C		
*For pH report a mir	nimum and a	a maximum (daily value.						
POLLUTAN	т		IM DAILY AVERAGE DAILY DISCHAR		ISCHARGE	ANALYTICAL		ML/MDL	
		CONC.	UNITS	CONC.	UNITS	NO. OF SAMPLES	METHOD		MIDIOIDE
Conventional and N	onconventio	onal Compou	unds						
BIOCHEMICAL OXYGEN	BOD₅		mg/L		mg/L				
DEMAND (Report One)	CBOD ₅		mg/L		mg/L				
FECAL COLIF	ORM		#/100 mL		#/100 mL	, , , , , , , , , , , , , , , , , , , ,			
TOTAL SUSPEI SOLIDS (TS			mg/L		mg/L				
AMMONIA (A			mg/L	,	mg/L				
CHLORINE (TOTAL RESIDUA			mg/L		mg/L				
DISSOLVED OX			mg/L		mg/L				
TOTAL KJELD NITROGEN (T			mg/L		mg/L				
NITRATE PL NITRITE NITRO			mg/L		mg/L				
OIL AND GRE	ASE		mg/L		mg/L				
PHOSPHORUS (TOTAL)		mg/L		mg/L				
TOTAL DISSOLVE (TDS)	SOLIDS		mg/L		mg/L				
OTHER			mg/L		mg/L				
	<u> </u>		-	END OF P	ART B		L		
10 780-1805 (09-08)									

PART C - CERTIFICATION

30. CERTIFICATION

All applicants must complete the Certification Section. This certification must be signed by an officer of the company or city official. All applicants must complete all applicable sections as explained in the Application Overview. By signing this certification statement, applicants confirm that they have reviewed the entire form and have completed all sections that apply to the facility for which this application is submitted.

ALL APPLICANTS MUST COMPLETE THE FOLLOWING CERTIFICATION.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

PRINTED NAME AND OFFICIAL TITLE (MUST BE AN OFFICER OF THE COMPANY OR CITY OFFICIAL)

Shave Akuter

TELEPHONE NUMBER WITH AREA CODE

417-325-4220

DATE SIGNED

9-25-13

Upon request of the permitting authority, you must submit any other information necessary to assess wastewater treatment practices at the treatment works or identify appropriate permitting requirements.

For Design Flows Less than 1 Million Gallons Per Day, Send Completed Form to:

Appropriate Regional Office

Map of regional offices with addresses and phone numbers is available on the Web at www.dnr.mo.gov/regions/ro-map.pdf.

For Design Flows of 1 Million Gallons Per Day or Greater, Send Completed Form to:

Department of Natural Resources
Water Protection Program
ATTN: NPDES Permits and Engineering Section
P.O. Box 176
Jefferson City, MO 65102

END OF PART C.

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM B2 YOU MUST COMPLETE.

Do not complete the remainder of this application, unless:

- 1. Your facility design flow is equal to or greater than 1,000,000 gallons per day.
- Your facility is a pretreatment treatment works.
- Your facility is a combined sewer system.

Submittal of an incomplete application may result in the application being returned. Permit fees for returned applications shall be forfeited. Permit fees for applications being processed by the department that are withdrawn by the applicant shall be forfeited.

MAKE ADDITI	ONAL CO	DIES OF 3	TUIC FO	DM FOR	EACH	VITEAL	1				
FACILITY NAME	UNAL CC	PIES OF		RMIT NO.	EACH	OIFAL	<u>L.</u>	OUTF	ALL NO.		
			M	0-							
PART D - EXP	ANDED	EFFLUENT	TESTIN	IG DATA	\						
40. EXPAND	ED EFFL	UENT TES	STING D	ATA							
Refer to the supp	olemental a	pplication in	formation	to determ	nine wheth	ner Part D	applies to	the treat	ment works.		<u> </u>
40.1 EFFLUE DAY OR IT HAS (CAUTHORITY TO PINDICATED EFFLUINFORMATION OF COLLECTED THRE QA/QC REQUIRES ANALYTES NOT A POLLUTANTS NO YEARS OLD.	OR IS REQUENCY TEST OF A COMBINE OUGH ANA MENTS OF A LODRESSEI	JIRED TO HA JE DATA, THE JE SEWER O' JE SEWER O' JE SEWER O' JE SEWER JE SEWER	VE) A PRE EN PROVII ATION FO VERFLOW OUCTED U 136 AND PART 136	TREATMEDE EFFLUI OR EACH OF IS IN THIS SING 40 COTHER AL INDICAT	ENT PROGI ENT TESTI PUTFALL T SECTION. FR PART 1 PPROPRIA E IN THE E	RAM, OR I NG DATA HROUGH ALL INFO 36 METHO TE QA/QO BLANK RO	S OTHERV FOR THE I WHICH EF DRMATION DDS. IN AL C REQUIRE DWS PROV	VISE REQUESOLOMING FLUENT IS REPORTED DITION, TEMENTS FOR IDED BELO	JIRED BY TH IG POLLUTAI S DISCHARG ED MUST BE I HIS DATA MI OR STANDAR DW ANY DATA	NTS. PROVIDE T ED. DO NOT INC BASED ON DATA UST COMPLY WI RD METHODS FO A YOU MAY HAV	THE CLUDE \ TH PR
OUTFALL NUMBE	R (Complete	e Once for Ea	ch Outfall I	Discharging	Effluent to	Waters of	f the State.)				
	MAX	(IMUM DAILY	DISCHAR	RGE		AVERAG	SE DAILY D	ISCHARG	Ε	ANALYTICAL	
POLLUTANT	CONC	UNITS	MASS	UNITS	CONC	UNITS	MASS	UNITS	NO. OF SAMPLES	METHOD	ML/MDL
METALS (TOTAL	RECOVERA	BLE), CYANI	DE, PHEN	OLS AND	HARDNES	S				77778	1. 2 7
ANTIMONY									_	2520	1339
ARSENIC										3	
BERYLLIUM									25	Y KELLO	
CADMIUM									120	SEP	
CHROMIUM										भी शिक्षाका ह	ilv.
COPPER		. "								37	,,,,
LEAD										31415	21110
MERCURY								. <u> </u>			
NICKEL											
SELENIUM											
SILVER											
THALLIUM					!						
ZINC											
CYANIDE											
TOTAL PHENOLIC COMPOUNDS											
HARDNESS (as CaCO ₃)											
USE THIS SPACE	(OR A SEP	ARATE SHEE	T) TO PR	OVIDE INF	ORMATIO	N ON OTH	IER METAL	S REQUE	STED BY THE	PERMIT WRITE	R.
,						,,					
****										, ,	
,						,				- Andrews - Andr	
		 							1		

FACILITY NAME			PERM	MIT NO.				OUTF	ALL NO.		
PART D - EXPANDED	EFFLUE	ENT TEST			TINUED)				•	
40.1 EXPANDED EFFL	UENT T	ESTING I	DATA (C	ONTINUE	ED)						
Complete Once for Eac	h Outfall	Discharg	ing Efflu	ent to Wa	ters of th	e State.					
	MAX	IMUM DAIL	Y DISCH	ARGE		AVERA	SE DAILY	DISCHAR	GE	ANALYTICAL	
POLLUTANT	CONC	UNITS	MASS	UNITS	CONC	UNITS	MASS	UNITS	NO. OF SAMPLES	METHOD	ML/MDL
VOLATILE ORGANIC CO	MPOUND	S									
ACROLEIN											27282
ACRYLONITRILE										25	70212024
BENZENE										\23°	3
BROMOFORM										72	RECEIVI 1
CARBON TETRACHLORIDE	_									12020	SEP 20
CHLOROBENZENE										6.0	15-11-76
CHLORODIBROMO- METHANE										19	
CHLOROETHANE											SI PLEFE
2-CHLORO- ETHYLVINYL ETHER											
CHLOROFORM											
DICHLOROBROMO- METHANE										<u> </u>	
1,1-DICHLORO- ETHANE											
1,2-DICHLORO- ETHANE											
TRANS-1,2- DICHLOROETHYLENE			,								
1,1-DICHLORO- ETHYLENE											
1,2-DICHLORO- PROPANE											
1,3-DICHLORO- PROPYLENE											
ETHYLBENZENE							_				
METHYL BROMIDE											
METHYL CHLORIDE											
METHYLENE CHLORIDE											
1,1,2,2-TETRA- CHLOROETHANE											
TETRACHLORO- ETHANE											
TOLUENE											
3,4-BENZO- FLUORANTHENE											
BENZO(GH) PHERYLENE											
BENZO(K) FLUORANTHENE MO 780-1805 (09-08)											

FACILITY NAME		· ·	PERM MO-	AIT NO.				OUTF	ALL NO.		
PART D - EXPANDED	EFFLUE	NT TES	TING DA	TA (CON	ITINUED)					
40.1 EXPANDED EFFL	UENT T	ESTING I	DATA (C	ONTINU	ED)	_					
Complete Once for Eac	h Outfall	Discharg	jing Efflu	ent to Wa	ters of th	e State.					
	MAXI	MUM DAI	LY DISCH	ARGE		AVERAC	E DAILY	DISCHAR	GE	ANALYTICAL	
POLLUTANT	CONC	UNITS	MASS	UNITS	CONC	UNITS	MASS	UNITS	NO. OF SAMPLES	METHOD	ML/MDL
BIS (2-CHLOROTHOXY) METHANE											
BIS (2-CHLOROETHYL) - ETHER											
BIS (2-ETHYLHEXYL) PHTHALATE										05	627282
4-BROMOPHENYL PHENYL ETHER										(3)A.	\$\langle \text{\$\psi_i}\$
BUTYL BENZYL PHTHALATE										/2	RECEIVE.
2-CHLORONAPH- THALENE										1202	CELL ST
4-CHLORPHENYL PHENYL ETHER										20212020 W TO 10 10 10 10 10 10 10 10 10 10 10 10 10	446,-64
CHRYSENE										9,	91 61 816
DI-N-BUTYL PHTHALATE											T. Marie Co.
DEBENZO (A,H) ANTHRACENE											_
1,2-DICHLORO- BENZENE											
1,3-DICHLORO- BENZENE											
1,4-DICHLORO- BENZENE											
3,3-DICHLORO- BENZIDINE											
DIETHYL PHTHALATE											
DIMETHYL PHTHALATE											
2,4-DINITRO-TOLUENE											
2,6-DINITRO-TOLUENE											
1,2-DIPHENYL- HYDRAZINE							,				
1,1,1-TRICHLORO- ETHANE											
1,1,2-TRICHLORO- ETHANE										_	
TRICHLORETHYLENE											
VINYL CHLORIDE											
USE THIS SPACE (OR A THE PERMIT WRITER	SEPARAT	E SHEET) TO PRO	VIDE INFO	DRMATIO	N ON OTH	ER VOLA	TILE ORG	ANIC COMPO	OUNDS REQUES	TED BY
							,,,,,				
					1	1					

FACILITY NAME			PERMI MO-	T NO.				OUTFA	ALL NO.		
PART D - EXPANDED E	FFLUEN	T TESTI	NG DATA	(CONTI	NUED)						
40.1 EXPANDED EFFLUI	ENT TES	TING DA	TA (CO	NTINUED)				,		
Complete Once for Each	Outfall Di	schargin	g Effluen	t to Water	rs of the	State.		•			
	MAXI	MUM DAII	LY DISCH	ARGE		AVERAC	SE DAILY (DISCHAR	GE	ANALYTICAL	
POLLUTANT	CONC	UNITS	MASS	UNITS	CONC	UNITS	MASS	UNITS	NO. OF SAMPLES	METHOD	ML/MDL
ACID-EXTRACTABLE CO	MPOUN	IDS								· · · · · ·	
P-CHLORO-M-CRESOL											
2-CHLOROPHENOL							,			/ 30	272820
2,4-DICHLOROPHENOL										2423	30 E
2,4-DIMETHYLPHENOL			,				, .			2122	
4,6-DINITRO-O-CRESOL										212	co 2013
2,4-DINITROPHENOL										202	C (C)(I)
2-NITROPHENOL										3	17 17 3
4-NITROPHENOL		,								1910	ن ن
PENTACHLOROPHENOL										1910	PI EL CLY
PHENOL											
2,4,6- TRICHLOROPHENOL											
USE THIS SPACE (OR A SE PERMIT WRITER.	PARATE	SHEET) T	O PROVII	DE INFOR	MATION (ON OTHER	R ACID-EX	TRACTAE	BLE COMPOU	NDS REQUESTE	D BY THE
-											
	-										
-											
			1								

PART D - EXPANDED EFFLUENT TESTING DATA (CONTINUED) 40.1 EXPANDED EFFLUENT TESTING DATA (CONTINUED) POLLUTANT MAXIMUM DAILY DISCHARGE AVERAGE DAILY DISCHARGE ANALYTICAL METHOD ML/MDL BASE-NEUTRAL COMPOUNDS ACENAPHTHENE	FACILITY NAME			PERMI MO-	T NO.				OUTF	ALL NO.		
40.1 EXPANDED EFFLUENT TESTING DATA (CONTINUED) MAXIMUM DAILY DISCHARGE CONC UNITS MASS UNITS CONC UNITS MASS UNITS SAMPLES BASE-NEUTRAL COMPOUNDS ACENAPHTHENE ACENAPHTHYLENE BENZIDINE BENZO(A)ANTHRACENE BENZO(A)ANTHRACENE BENZO(A)ANTHRACENE FLUORANTHENE FLUORANTHENE HEXACHLOROGENZENE HEXACHLOROGETHANE NITROBENZENE NAPHTHALENE NAPHTHALENE NITROBENZENE N-NITROSODI- PHENYLAMINE N-NITROSODI- PHENALAMINE N-NITROSODI- N	PART D - EXPANDED E	FFLUEN	T TESTIN		A (CONTI	NUED)						
POLLUTANT MAXIMUM DAILY DISCHARGE AVERAGE DAILY DISCHARGE AMALYTICAL METHOD MUMDL										-		
BASE-NEUTRAL COMPOUNDS ACENAPHTHENE ACENAPHTHYLENE ANTHRACENE BENZIOINE BENZIOINE BENZO(A)ANTHRACENE BENZO(A)ANTHRACENE BENZO(A)ANTHRACENE BENZO(A)PYRENE FLUORANTHENE FUORENE HEXACHLOROSENZENE HEXACHLOROSCYCLO- PENTADIENE INDENO (1 2.3-CD) PYRENE ISOPHORONE NAITROSENZENE NAITROSENZENE NAITROSODI- PROPYLAMINE NAITROSODI- PROPYLAMINE NAITROSODI- MEHYLAMINE NAITROSODI- MEHYLAMINE PHENALHLAMINE PHENALHLAMINE PHENALHLAMINE PHENALHLAMINE NAITROSODI- MEHYLAMINE PHENALHLAMINE		MAXI	MUM DAIL	Y DISCH	IARGE		AVERAC	SE DAILY	DISCHAR	GE	ANALYTICAL	
ACENAPHTHENE ACENAPHTHYLENE ACENAPHTHYLENE ANTHRACENE BENZIDINE BENZO(A)ANTHRACENE BENZO(A)ANTHRACENE BENZO(A)PYRENE FLUORANTHENE FLUORENE HEXACHLOROBENZENE HEXACHLOROCYCLO- PENTADIENE HEXACHLOROCYCLO- PENTADIENE INDENO (1,2,3-CD) PYRENE ISOPHORONE NAPHTHALENE NITROBENZENE N-NITROSODI- PROPYLAMINE N-NITROSODI- METHYLAMINE N-NITROSODI- METHYLAMINE N-NITROSODI- PHENANTHRENE PHENANTHRENE PYRENE 1,2,4- TRICHLOROBENZENE USE THIS SPACE (OR SEPARATE SHEET) TO PROVIDE INFORMATION ON OTHER BASE-NEUTRAL COMPOUNDS REQUESTED BY THE	POLLUTANT	CONC	UNITS	MASS	UNITS	CONC	UNITS	MASS	UNITS			ML/MDL
ACENAPHTHYLENE ANTHRACENE BENZIOINE BENZO(A)ANTHRACENE BENZO(A)PYRENE FLUORANTHENE FLUORENE HEXACHLOROBENZENE HEXACHLOROCYCLO- PENTADIENE INDENO (1,2,3-CD) PYRENE ISOPHORONE NAPHTHALENE NITROSODI- PROPYLAMINE N-NITROSODI- PROPYLAMINE N-NITROSODI- PRENYLAMINE N-NITROSODI- PHENYLAMINE PHENANTHRENE PHENANTHRENE PYRENE 1,2,4- TRICHLOROBENZENE USE THIS SPACE (OR SEPARATE SHEET) TO PROVIDE INFORMATION ON OTHER BASE-NEUTRAL COMPOUNDS REQUESTED BY THE	BASE-NEUTRAL COMPO	OUNDS	· · · · · · · · · · · · · · · · · · ·		·							
ANTHRACENE BENZIOINE BENZO(A)ANTHRACENE BENZO(A)PYRENE FLUORANTHENE FLUORANTHENE HEXACHLOROBENZENE HEXACHLOROCYCLO- PENTADIENE INDENO (1,2,3-CD) PYRENE ISOPHORONE NAPHTHALENE NITROSODI- PROPYLAMINE N-NITROSODI- PROPYLAMINE N-NITROSODI- PROPYLAMINE N-NITROSODI- PHENYLAMINE N-NITROSODI- PHENYLAMINE PHENANTHRENE PHENANTHRENE PYRENE 1,2,4- TRICHLOROBENZENE USE THIS SPACE (OR SEPARATE SHEET) TO PROVIDE INFORMATION ON OTHER BASE-NEUTRAL COMPOUNDS REQUESTED BY THE	ACENAPHTHENE											
BENZIONE BENZO(A)ANTHRACENE BENZO(A)PYRENE FLUORANTHENE FLUORENE HEXACHLOROBENZENE HEXACHLOROCYCLO- PENTADIENE INDENO (1,2,3-CD) PYRENE ISOPHORONE NAPHTHALENE NITROSODI- PROPYLAMINE N-NITROSODI- PROPYLAMINE N-NITROSODI- METHYLAMINE N-NITROSODI- METHYLAMINE N-NITROSODI- METHYLAMINE PHENANTHRENE PYRENE 1,2,4- TRICHLOROBENZENE USE THIS SPACE (OR SEPARATE SHEET) TO PROVIDE INFORMATION ON OTHER BASE-NEUTRAL COMPOUNDS REQUESTED BY THE	ACENAPHTHYLENE											
BENZO(A)ANTHRACENE BENZO(A)PYRENE FLUORANTHENE FLUORENE HEXACHLOROBENZENE HEXACHLOROCYCLO- PENTADIENE HEXACHLOROCTHANE INDENO (1,2,3-CD) PYRENE ISOPHORONE NAPHTHALENE NITROSODI- PROPYLAMINE N-NITROSODI- PROPYLAMINE N-NITROSODI- METHYLAMINE N-NITROSODI- METHYLAMINE PHENANTHRENE PYRENE 1,2,4- TRICHLOROBENZENE USE THIS SPACE (OR SEPARATE SHEET) TO PROVIDE INFORMATION ON OTHER BASE-NEUTRAL COMPOUNDS REQUESTED BY THE	ANTHRACENE											
BENZO(A)PYRENE FLUORANTHENE FLUORENE HEXACHLOROBENZENE HEXACHLOROCYCLO- PENTADIENE HEXACHLOROETHANE INDENO (12.3-CD) PYRENE ISOPHORONE NAPHTHALENE NITROSODI- PROPYLAMINE N-NITROSODI- METHYLAMINE N-NITROSODI- METHYLAMINE N-NITROSODI- PHENYLAMINE N-NITROSODI- PHENYLAMINE PHENANTHRENE PYRENE 1.2.4- TRICHLOROBENZENE USE THIS SPACE (OR SEPARATE SHEET) TO PROVIDE INFORMATION ON OTHER BASE-NEUTRAL COMPOUNDS REQUESTED BY THE	BENZIDINE										_	
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ISOPHORONE NAPHTHALENE NITROBENZENE N-NITROSODI- PROPYLAMINE N-NITROSODI- METHYLAMINE N-NITROSODI- PHENYLAMINE PHENANTHRENE PYRENE 1.2,4- TRICHLOROBENZENE USE THIS SPACE (OR SEPARATE SHEET) TO PROVIDE INFORMATION ON OTHER BASE-NEUTRAL COMPOUNDS REQUESTED BY THE											2.3	24//K)
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METHYLAMINE N-NITROSODI- PHENYLAMINE PHENANTHRENE PYRENE 1,2,4- TRICHLOROBENZENE USE THIS SPACE (OR SEPARATE SHEET) TO PROVIDE INFORMATION ON OTHER BASE-NEUTRAL COMPOUNDS REQUESTED BY THE				_								
PHENYLAMINE PHENANTHRENE PYRENE PYRENE 1,2,4- TRICHLOROBENZENE USE THIS SPACE (OR SEPARATE SHEET) TO PROVIDE INFORMATION ON OTHER BASE-NEUTRAL COMPOUNDS REQUESTED BY THE								_				_
PYRENE 1,2,4- TRICHLOROBENZENE USE THIS SPACE (OR SEPARATE SHEET) TO PROVIDE INFORMATION ON OTHER BASE-NEUTRAL COMPOUNDS REQUESTED BY THE												
1,2,4- TRICHLOROBENZENE USE THIS SPACE (OR SEPARATE SHEET) TO PROVIDE INFORMATION ON OTHER BASE-NEUTRAL COMPOUNDS REQUESTED BY THE	PHENANTHRENE											
TRICHLOROBENZENE USE THIS SPACE (OR SEPARATE SHEET) TO PROVIDE INFORMATION ON OTHER BASE-NEUTRAL COMPOUNDS REQUESTED BY THE	PYRENE											
	USE THIS SPACE (OR SEP	ARATE SH	HEET) TO	PROVIDE	INFORM	ATION ON	OTHER	BASE-NEU	JTRAL CC	MPOUNDS R	EQUESTED BY T	HE
						_						
				_								
								_				
END OF PART D					EN	D OF PA	RT D					

MAKE ADDITIONAL COPIES OF THIS FORM FOR EA	CH OUTFALL.			
	RMIT NO.		OUTFALL NO.	•
Diamond watt MC	- 0042013		00	
PART E - TOXICITY TESTING DATA				(
50. TOXICITY TESTING DATA				
Refer to the Supplemental Application Information	to determine whether	Part F applies to the t	reatment works	
Publicly owned treatment works, or POTWS, mee				e of whole effluent toxicity
tests for acute or chronic toxicity for each of the fa			t provide the result	is of whole emderit toxicity
A. POTWs with a design flow rate greater				
B. POTWs with a pretreatment program (c			40 CFR Part 403)	
C. POTWs required by the permitting auth	•		40 01 111 ant 400).	
At a minimum, these results must in	•	•	l within the next on	o year using multiple
species (minimum of two species),	or the results from for	g 101 a 12-month penoc ir tests performed at le:	s willill the past on set annually in the	four and one-half years
prior to the application, provided the	or the results from for	reciable toxicity, and te	sting for acute or c	hronic toxicity depending
on the range of receiving water dilu	tion. Do not include in	nformation about comb	ined sewer overflor	ws in this section. All
information reported must be based	on data collected thr	ough analysis conducte	ed using 40 CFR P	art 136 methods. In
addition, this data must comply with	QA/QC requirements	of 40 CFR Part 136 a	nd other appropriat	te QA/QC requirements for
standard methods for analytes not a	addressed by 40 CFR	Part 136.		
 If EPA methods were not used, rep 	ort the reason for usin	g alternative methods.	If test summanes	are available that contain
all of the information requested belo	ow, they may be subm	itted in place of Part E	. If no biomonitorir	ng data is required, do not
complete Part E. Refer to the appli				
50.1 REQUIRED TESTS. INDICATE THE NUMBE	R OF WHOLE EFFLUE	NT TOXICITY TESTS CO	NDUCTED IN THE P	PAST FOUR AND ONE-HALF
YEARS.				
CHRONIC		ACUTE		
INDIVIDUAL TEST DATA. Complete the following chart	for the last three whole	offluent toxicity teets	Allow one column no	r toet (whore each enecies
constitutes a test). Copy this page if more than three test	tor the last three who ests are being reported.	e embent toxicity tests.	Allow one column pe	i test (where each species
Constitutes a teaty. Copy this page is more than the co-	MOST RECEN	T 2 ND MOS	TRECENT	3 RD MOST RECENT
A. TEST INFORMATION	I III III III III III III III III III			
TEST NUMBER	I			(362728)
TEST SPECIES AND TEST METHOD NUMBER				22202120233
AGE AT INITIATION OF TEST				· · · · · · · · · · · · · · · · · · ·
OUTFALL NUMBER				
DATES SAMPLE COLLECTED				
DATE TEST STARTED				CEP 2013
DURATION				2010
B. GIVE TOXICITY TEST METHODS FOLLOWED			L	- SMKO
MANUAL TITLE	T			73.
EDITION NUMBER AND YEAR OF PUBLICATION				
PAGE NUMBER(S)		<u> </u>		9/2/2/2/17/1
C. GIVE THE SAMPLE COLLECTION METHOD(S) US	ED FOR MULTIPLE G	RAR SAMPLES INDICAT	E THE NUMBER OF	GRAR SAMPLES HISED
24-HOUR COMPOSITE	LD: TOK MOETH LE O	TO LO CATALLE CO, IN LO TO TO	E WIE NOWIDEN OF	
GRAB			· · · · · ·	
D. INDICATE WHERE THE SAMPLE WAS TAKEN IN	RELATION TO DISINEE	CTION (CHECK ALL TH	AT APPLY FOR FAC	CH)
BEFORE DISINFECTION]
AFTER DISINFECTION	<u> </u>			<u></u>
AFTER DECHLORINATION				
E. DESCRIBE THE POINT IN THE TREATMENT PRO				- · · · · · · · · · · · · · · · · · · ·
SAMPLE WAS COLLECTED		JANA CE VIAO GOLLEGA		
F. FOR EACH TEST, INCLUDE WHETHER THE TEST	WAS INTENDED TO A	SSESS CHRONIC TOXIC	CITY, ACUTE TOXIC	ITY OR BOTH
CHRONIC TOXICITY]
ACUTE TOXICITY		<u> </u>		<u>-</u>
G. PROVIDE THE TYPE OF TEST PERFORMED	<u> </u>			
STATIC]
				3
STATIC STATIC-RENEWAL			 	
FLOW-THROUGH	AWATER SPECIEVITY	DE: IE DECEIVING MATE		
H. SOURCE OF DILUTION WATER. IF LABORATORY	VVATER, SPECIFY TY	PE, IF RECEIVING WATE	IR, SPECIFY SOUR	<u> </u>
LABORATORY WATER				
RECEIVING WATER				
MO 780-1805 (09-08)				

FACILITY NAME	PERMIT NO.	OUTFALL NO.	. 1
Diamad HUTT	MO-0047013	α	5
PART E - TOXICITY TESTING DATA (COM	ITINUED)		
50.1 WHOLE EFFLUENT TOXICITY TESTS	DATA (CONTINUED)		
	MOST RECENT	2 ND MOST RECENT	3 RD MOST RECENT
I. TYPE OF DILUTION WATER, IF SALT WATE	R, SPECIFY "NATURAL" OR TYPE	OF ARTIFICIAL SEA SALTS OR	BRINE USED.
FRESH WATER			
SALT WATER		1	<u> </u>
J. GIVE THE PERCENTAGE EFFLUENT USED	FOR ALL CONCENTRATIONS IN T	HE TEST SERIES.	
K DADAMETERS MEASURED DURING THE T	EST (STATE MAJETHED BADAMET	ED MEETS TEST METHOD SDE	CIEICATIONS
K. PARAMETERS MEASURED DURING THE TI	SIATE WHETHER PARAMET	ER MEETS TEST METHOD SPE	T T T T T T T T T T T T T T T T T T T
SALINITY		·	
TEMPERATURE		· · · · · · · · · · · · · · · · · · ·	252627282930
AMMONIA			1000
DISSOLVED OXYGEN			/s ²
L. TEST RESULTS		<u></u>	1 /N core WET
ACUTE:			2013
PERCENT IN SURVIVAL IN 100% EFFLUENT	г	1	
LC ₅₀			3
95% C.I.			-23
CONTROL PERCENT SURVIVAL			
OTHER (DESCRIBE)			18/9,
CHRONIC:			HOLE IN-
NOEC			
IC ₂₅			
CONTROL PERCENT SURVIVAL			
OTHER (DESCRIBE)			
M. QUALITY CONTROL ASSURANCE			T
IS REFERENCE TOXICANT DATA AVAILABLE?			
WAS REFERENCE TOXICANT TEST WITHIN ACCEPTABLE BOUNDS?	ı İ	, , , , , , , , , , , , , , , , , , , ,	
WHAT DATE WAS REFERENCED TOXICAN	<u> </u>		
TEST RUN (MM/DD/YYYY)?	'		
OTHER (DESCRIBE)	· · · · · · · · · · · · · · · · · · ·		
50.2 TOXICITY REDUCTION EVALUATION			
Is the treatment works involved in a toxicity reduct If yes, describe:	ion evaluation?	□ No	
50.3 SUMMARY OF SUBMITTED BIOMONI	FORING TEST INFORMATION		
If you have submitted biomonitoring test information			d one-half years, provide the
dates the information was submitted to the permitt	ing authority and a summary of the re	esuits.	
Date Submitted (MM/DD/YYYY)			
Summary of Results (See Instructions)			
REFER TO THE APPLICATION OVERVIEW	END OF PART E	ER PARTS OF FORM R2 VOI	I MUST COMPLETE
O 780-1805 (09-08)	PETEROMITE WINOTI OTT	LITT ANTIQUE DE TOUR DE TOU	, moor oom Lett.

	ADDITIONAL COPIES OF THIS FORM F	OR EACH OUTFALL.				
FACILIT	1	PERMIT NO.		OUTFALL NO.	001	
	Diamond will It	MO- 00 H901	<u>) </u>		ω_{l}	
	F – INDUSTRIAL USER DISCHARG			· · · · · · · · · · · · · · · · · · ·		
60.	INDUSTRIAL USER DISCHARGE					
Refer t	o the Supplemental Application Inform	nation to determine whe	ther Part F appli	es to the treatment wor	ks.	
All treat this form	ment works receiving discharges from sign. n.	nificant industrial users or w	hich receive RCR	A, CERCLA, or other remo	edial wastes mi	ust complete
	RAL INFORMATION					
60.1	PRETREATMENT PROGRAM					
Does th ☐ Yes	e treatment works have, or is it subject to,	an approved pretreatment	program?			
60.2	NUMBER OF NON-CATEGORICAL SIG					
	PROVIDE THE NUMBER OF EACH OF WORKS.	THE FOLLOWING TYPES	S OF INDUSTRIAL	LUSERS THAT DISCHAF	RGE TO THE TI	REATMENT
A.	Number of Non-Categorical SIUs		B. Numb	er of CIUs		
60.3	SIGNIFICANT INDUSTIRAL USER INF the following information for each SIU. If r		as to the treatmen	nt works provide the info-	nation reguests	nd for each
	additional pages as necessary.	iore man one sto discharç	es io ure ueaunei	it works, provide the infor	nation requeste	u ioi eacil.
NAME	· · · · · · · · · · · · · · · · · · ·					
NAAU ING	APPRESS			CITY	CTATE	ZIP
MAILING	ADDRESS			CITT	STATE	£2627282
60.4	INDUSTRIAL PROCESSES					No Comment
DESCR	IBE ALL OF THE INDUSTRIAL PROCES	SES THAT AFFECT OR C	ONTRIBUTE TO T	HE SIU's DISCHARGE.	/23	, v
					/\2\footnote{\gamma}	
60.5	PRINCIPAL PRODUCT(S) AND RAW N		udo to the CII Po d	inchase	 	
	e all of the principle processes and raw ma	nenais mai aneci oi comin				
	AL PRODUCT(S)		die to the SiO's di	scriarge.		
11111011	AL PRODUCT(S)		ate to the SIOS a	scharge	0.620	
	AL PRODUCT(S)		die to the SIOS di	Scharge.		
RAW MA	TERIAL(S)		de to the SiOs di	scharge.		9191110-73
RAW MA	TERIAL(S)					9/9/118:21
RAW MA	TERIAL(S)	E. Indicate the average da	ily volume of proc			9/9/118:21
RAW MA	FLOW RATE PROCESS WASTEWATER FLOW RAT gallons per day, or gpd, and whether the gpd Gpd Continuous	E. Indicate the average da discharge is continuous o ☐ Intermittent	ily volume of proc rintermittent.	ess wastewater discharge	d into the collec	ction system in
RAW MA	FLOW RATE PROCESS WASTEWATER FLOW RAT gallons per day, or gpd, and whether the gpd	E. Indicate the average da discharge is continuous o Intermittent / RATE. Indicate the average	ily volume of proc intermittent.	ess wastewater discharge	d into the collec	ction system in
60.6 A.	FLOW RATE PROCESS WASTEWATER FLOW RAT gallons per day, or gpd, and whether the gpd Gpd Continuous	E. Indicate the average da discharge is continuous o Intermittent / RATE. Indicate the average	ily volume of proc intermittent.	ess wastewater discharge	d into the collec	ction system in
60.6 A. B.	FLOW RATE PROCESS WASTEWATER FLOW RAT gallons per day, or gpd, and whether the gpd	E. Indicate the average da discharge is continuous o Intermittent / RATE. Indicate the average	ily volume of proc intermittent.	ess wastewater discharge	d into the collec	ction system in
60.6 A. B. C.	FLOW RATE PROCESS WASTEWATER FLOW RAT gallons per day, or gpd, and whether the gpd	E. Indicate the average da discharge is continuous o Intermittent / RATE. Indicate the avera hether the discharge is con	ily volume of proc intermittent.	ess wastewater discharge	d into the collec	ction system in
RAW MA 60.6 A. B. C. 60.7 Indicate	FLOW RATE PROCESS WASTEWATER FLOW RAT gallons per day, or gpd, and whether the gpd	E. Indicate the average date discharge is continuous or Intermittent / RATE. Indicate the average the discharge is continuous.	ily volume of proc intermittent. ige daily volume o itinuous or intermi	ess wastewater discharge f non-process wastewater ttent.	d into the collec	ction system in
RAW MA 60.6 A. B. C. 60.7 Indicate A.	FLOW RATE PROCESS WASTEWATER FLOW RAT gallons per day, or gpd, and whether the gpd	E. Indicate the average date discharge is continuous or Intermittent / RATE. Indicate the averaghether the discharge is continuous Intermittent	ily volume of proc intermittent. Ige daily volume o Itinuous or intermi	ess wastewater discharge f non-process wastewater ttent.	d into the collec	ction system in
B. C. 60.7 Indicate A. B.	FLOW RATE PROCESS WASTEWATER FLOW RAT gallons per day, or gpd, and whether the gpd	E. Indicate the average dated is charge is continuous of Intermittent / RATE. Indicate the average is continuous intermittent Intermittent Ye	illy volume of proces intermittent. Ige daily volume of the thick	ess wastewater discharge f non-process wastewater ttent.	d into the collec	ction system in
RAW MA 60.6 A. B. C. 60.7 Indicate A. B.	FLOW RATE PROCESS WASTEWATER FLOW RAT gallons per day, or gpd, and whether the gpd	E. Indicate the average date discharge is continuous or Intermittent / RATE. Indicate the average hether the discharge is continuous or Intermittent Intermittent	illy volume of processing and intermittent. Inge daily volume of a stinuous or intermitent. Inge daily volume of the stinuous or intermitent in the stinuous of intermitent in the stinu	ess wastewater discharge f non-process wastewater ttent. No	d into the collec	ction system in
RAW MA 60.6 A. B. C. 60.7 Indicate A. B. If subject	FLOW RATE PROCESS WASTEWATER FLOW RAT gallons per day, or gpd, and whether the gpd	E. Indicate the average date discharge is continuous or Intermittent / RATE. Indicate the average discharge is continuous or Intermittent Intermittent	illy volume of processing and intermittent. Inge daily volume of the processing and intermited	ess wastewater discharge f non-process wastewater ttent. No No	d into the collect	ction system in
RAW MA 60.6 A. B. C. 60.7 Indicate A. B. If subject	FLOW RATE PROCESS WASTEWATER FLOW RAT gallons per day, or gpd, and whether the gpd	E. Indicate the average date discharge is continuous or Intermittent / RATE. Indicate the average is continuous in Intermittent Intermi	illy volume of processing and intermittent. Inge daily volume of the processing and intermited	ess wastewater discharge f non-process wastewater ttent. No No	d into the collect	ction system in
RAW MA 60.6 A. B. C. 60.7 Indicate A. B. If subject	FLOW RATE PROCESS WASTEWATER FLOW RAT gallons per day, or gpd, and whether the gpd	E. Indicate the average date discharge is continuous or Intermittent / RATE. Indicate the average is continuous in Intermittent Intermi	illy volume of processing and intermittent. Inge daily volume of the processing and intermited	ess wastewater discharge f non-process wastewater ttent. No No	d into the collect	ction system in
RAW MA 60.6 A. B. C. 60.7 Indicate A. B. If subject	FLOW RATE PROCESS WASTEWATER FLOW RAT gallons per day, or gpd, and whether the gpd	E. Indicate the average date discharge is continuous or Intermittent / RATE. Indicate the average is continuous in Intermittent Intermi	illy volume of processing and intermittent. Inge daily volume of the processing and intermited	ess wastewater discharge f non-process wastewater ttent. No No	d into the collect	ction system in
B. C. 60.7 Indicate A. B. If subject	FLOW RATE PROCESS WASTEWATER FLOW RAT gallons per day, or gpd, and whether the gpd	E. Indicate the average date discharge is continuous or Intermittent / RATE. Indicate the average is continuous in Intermittent Intermi	illy volume of processing and intermittent. Inge daily volume of the processing and intermited	ess wastewater discharge f non-process wastewater ttent. No No	d into the collect	ction system in
B. C. 60.7 Indicate A. B. If subject	FLOW RATE PROCESS WASTEWATER FLOW RAT gallons per day, or gpd, and whether the gpd	E. Indicate the average date discharge is continuous or Intermittent / RATE. Indicate the average is continuous in Intermittent Intermi	illy volume of processing and intermittent. Inge daily volume of the processing and intermited	ess wastewater discharge f non-process wastewater ttent. No No	d into the collect	ction system in
B. C. 60.7 Indicate A. B. If subject	FLOW RATE PROCESS WASTEWATER FLOW RAT gallons per day, or gpd, and whether the gpd	E. Indicate the average date discharge is continuous or Intermittent / RATE. Indicate the average is continuous in Intermittent Intermi	illy volume of processing and intermittent. Inge daily volume of the processing and intermited	ess wastewater discharge f non-process wastewater ttent. No No	d into the collect	ction system in
RAW MA 60.6 A. B. C. 60.7 Indicate A. B. If subject	FLOW RATE PROCESS WASTEWATER FLOW RAT gallons per day, or gpd, and whether the gpd	E. Indicate the average date discharge is continuous or Intermittent / RATE. Indicate the average is continuous in Intermittent Intermi	illy volume of processing and intermittent. Inge daily volume of the processing and intermited	ess wastewater discharge f non-process wastewater ttent. No No	d into the collect	ction system in

MAKE ADDITIONAL COPIES OF THIS FORM FO	OR EACH OUTFALL.	
FACILITY NAME	PERMIT NO.	OUTFALL NO.
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O 1. O 1.	ES AND RCRA/CERCLA WASTES (CONTIN	(UED)
	D BY TRUCK, RAIL, OR DEDICATED PIPELINE	
	or has it in the past three years received RCRA ha	zardous waste by truck, rail or dedicated pipe?
☐ Yes ☑ No	, , , , , , , , , , , , , , , ,	
WASTE TRANSPORT. Method by which RCRA v	vaste is received. (Check all that apply)	
☐ Truck ☐ Rail ☐ Dedic	ated Pipe	
WASTE DESCRIPTION. Give EPA hazardous wa	aste number and amount (volume or mass, specify	units).
EPA HAZARDOUS WASTE NUMBER	AMOUNT	UNITS
	<u> </u>	
60.10 CERCLA, OR SUPERFUND, WASTEW ACTIVITY WASTEWATER	ATER, RCRA REMEDIATION/CORRECTIVE ACT	ION WASTEWATER AND OTHER REMEDIAL
REMEDIATION WASTE. Does the treatment work	s currently (or has it been notified that it will) receive	e waste from remedial activities?
☐ Yes ☐ No Provide a list of site	s and the requested information for each current a	nd future site.
60.11 WASTE ORIGIN		
Describe the site and type of facility at which the C	ERCLA/RCRA/or other remedial waste originates	(or is expected to originate in the next five years).
60.12 POLLUTANTS		0720
	or are expected to be received). Included data on	volume and concentration, if known Mitach
additional sheets if necessary)	,	Jan A. P.
		(A)
		XY PRECEIVED
		A RECEIVED
		ig FEGI/SWRO
60.13 WASTE TREATMENT)	
A. Is this waste treated (or will it be treated) pnor to entering the treatment works?	9/5/11/3/11/0
☐ Yes ☐ No	shout the removal officiency):	A DI EL CI.
If Yes, describe the treatment (provide information	about the removal eniciency).	
B. Is the discharge (or will the discharge be	e) continuous or intermittent?	
☐ Continuous ☐ Interm	ittent	
If intermittent, describe the discharge schedule:		
1	END OF PART F	

PRINT O - COMBINED SEWER SYSTEMS 70. COMBINED SEWER SYSTEMS (COMPLETE THIS PART IF THE TREATMENT WORKS HAS A COMBINED SEWER SYSTEMS) 70. COMBINED SEWER SYSTEMS (COMPLETE THIS PART IF THE TREATMENT WORKS HAS A COMBINED SEWER SYSTEM) 70. SYSTEM MAP Provide a map indicating the following: (May be included with basic application information.) A. AIL CSO Discharges. B. Sensitive Use Areas Potentially Affected by CSOs. (e.g., beaches, drinking water supplies, shellfish beds, sensitive aquatic ecosystems and Outstanding Natural Resource Waters.) C. Waters that Support Trivestened and Endangered Species Potentially Affected by CSOs. 70. SYSTEM DIACRAM Provide a damp indicating the following. (May be included with basic application information.) A. Locations of Hong Sewer Trunk Lines, Both Combined Sewer Collection System that includes the following information: A. Locations of Points where Separate Sanitary Sewers Feed into the Combined Sewer Collection System that includes the following information: A. Locations of Points where Separate Sanitary Sewers Feed into the Combined Sewer System. C. Locations of Points where Separate Sanitary Sewers Feed into the Combined Sewer System. D. Locations of Points where Separate Sanitary Sewers Feed into the Combined Sewer System. C. Locations of Points System That Is COMBINED SEWER 70.4 POPULATION SERVED BY COMBINED SEWER COLLECTION SYSTEM 70.5 PERCENT OF COLLECTION SYSTEM THAT IS COMBINED SEWER 70.4 POPULATION SERVED BY COMBINED SEWER COLLECTION SYSTEM 70.5 DESCRIPTION OF OUTFALL A. Outfall Number B. Location C. Distance from Shore (if applicable) ———————————————————————————————————	MAKE 4	ADDITIONAL COPIES OF THIS FORM FOR EACH OUTF	ALL.			,
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Name of State Management/River Basin U.S. Geological Survey 8- Digit Hydrologic Cataloging Unit Code (If Known) 70.10 CSO OPERATIONS Describe any known water quality impacts on the receiving water caused by this CSO (e.g., permanent or intermittent beach closings, permanent or intermittent shellfish bed closings, fish kills, fish advisories, other recreational loss, or violation of any applicable state water quality standard.) END OF PART G.	R	Name of Watershed/River/Stream System	Tus	Soil Conservation Service 1	4-Digit Watershed Cod	le (If Known)
70.10 CSO OPERATIONS Describe any known water quality impacts on the receiving water caused by this CSO (e.g., permanent or intermittent beach closings, permanent or intermittent shellfish bed closings, fish kills, fish advisories, other recreational loss, or violation of any applicable state water quality standard.) END OF PART G.	О.	Name of Watershed/Net/Otteam System	0.0.	Con Conscivation Convice 1	+ Digit Watershied Oct	ie (ii raiowii)
Describe any known water quality impacts on the receiving water caused by this CSO (e.g., permanent or intermittent beach closings, permanent or intermittent shellfish bed closings, fish kills, fish advisories, other recreational loss, or violation of any applicable state water quality standard.) END OF PART G.	Name of	State Management/River Basin	U.S.	Geological Survey 8- Digit H	lydrologic Cataloging (Unit Code (If Known)
intermittent shellfish bed closings, fish kills, fish advisories, other recreational loss, or violation of any applicable state water quality standard.) END OF PART G.	70.10	CSO OPERATIONS				
REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM B2 YOU MUST COMPLETE.						
AO 780-1805 (09-08)			INE V	HICH OTHER PARTS O	F FORM B2 YOU N	NUST COMPLETE.
	REFER				F FORM B2 YOU N	IUST COMPLETE.

MAKE ADDITIONAL COPIES OF THIS FORM FOR E.	ACH OUTFALL.		
FACILITY NAME PE	RMIT NO.	OUTFALL	NO. 0 0 0
Diamond water M	0-0042013		002
PART E - TOXICITY TESTING DATA			7
50. TOXICITY TESTING DATA			
Refer to the Supplemental Application Information	to determine whether Pa	art E applies to the treatment	works.
Publicly owned treatment works, or POTWS, meetests for acute or chronic toxicity for each of the fa	eting one or more of the fo		
		nallone per day	
			Part 403)
			Fait 403).
 At a minimum, these results must in species (minimum of two species). 	nclude quarterly testing for the results from four te	or a 12-month period within the	ne past one year using multiple ally in the four and one-half years acute or chronic toxicity, depending
on the range of receiving water dilu information reported must be base	ition. Do not include infoi d on data collected through A QA/QC requirements of	mation about combined sew th analysis conducted using 4 40 CFR Part 136 and other	er overflows in this section. All
 If EPA methods were not used, rep 	ort the reason for using a ow, they may be submitte	Iternative methods. If test suid in place of Part E. If no bid	omonitoring data is required, do not
50.1 REQUIRED TESTS. INDICATE THE NUMBER YEARS.	R OF WHOLE EFFLUENT	TOXICITY TESTS CONDUCTED	O IN THE PAST FOUR AND ONE-HALF
CHRONIC	AC	UTE	
INDIVIDUAL TEST DATA. Complete the following chart constitutes a test). Copy this page if more than three te	for the last three whole effects are being reported.	fluent toxicity tests. Allow one	column per test (where each species
Constituted a tody. Copy and page it mere a law of the	MOST RECENT	2 ND MOST RECEN	TT 3 RD MOST RECENT
A. TEST INFORMATION			612820
TEST NUMBER			- Sal
TEST SPECIES AND TEST METHOD NUMBER			
AGE AT INITIATION OF TEST			100
OUTFALL NUMBER			(N 000)
DATES SAMPLE COLLECTED			1 1 20 20 TO
DATE TEST STARTED			130
DURATION	· · · · · · · · · · · · · · · · · · ·		18,
B. GIVE TOXICITY TEST METHODS FOLLOWED			9,
MANUAL TITLE		γ	370
EDITION NUMBER AND YEAR OF PUBLICATION			MADE OF CHAP SAMPLES MEED
PAGE NUMBER(S)			Acres de la companya
C. GIVE THE SAMPLE COLLECTION METHOD(S) US 24-HOUR COMPOSITE	SED. FOR MULTIPLE GRAE	SAMPLES, INDICATE THE NU	JMBER OF GRAB SAMPLES USED.
GRAB			
D. INDICATE WHERE THE SAMPLE WAS TAKEN IN		ON. (CHECK ALL THAT APPLY	
BEFORE DISINFECTION	<u> </u>		
AFTER DISINFECTION	<u> </u>		
AFTER DECHLORINATION			
E. DESCRIBE THE POINT IN THE TREATMENT PRO	CESS AT WHICH THE SAM	PLE WAS COLLECTED	
SAMPLE WAS COLLECTED	MAC INTENDED TO ACCO	100 OUDONIO TOVI	
F. FOR EACH TEST, INCLUDE WHETHER THE TEST			
CHRONIC TOXICITY ACUTE TOXICITY	0		
G. PROVIDE THE TYPE OF TEST PERFORMED			G
STATIC			
The state of the s	0	<u> </u>	
STATIC STATIC-RENEWAL	0	0	0
FLOW-THROUGH	()MAYED ODEOUTY TOUT		0
H. SOURCE OF DILUTION WATER, IF LABORATORY	WATER, SPECIFY TYPE;	IF RECEIVING WATER, SPECI	FY SOURCE
LABORATORY WATER RECEIVING WATER			
RECEIVING WATER 10 780-1805 (09-08)	L		

T 3 ^{RO} MOST RECENT S OR BRINE USED. D SPECIFICATIONS)
D SPECIFICATIONS)
D SPECIFICATIONS)
D SPECIFICATIONS)
D SPECIFICATIONS)
/33 (262)
/33 (262)
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2 97 SI
31
our and one-half years, provide the
, care, provide the
f

MAKE	ADDITIONAL COF	PIES OF THIS FORM FO	OR EACH OUTFALL.					
FACILIT	YNAME		PERMIT NO.	`		OUTFALL NO.	`	
7	Diamond	WITE	MO- 00 4301			$\mathcal{O}\mathcal{O}$	2	
PART	F - INDUSTRIAL	L USER DISCHARGE	S AND RCRA/CERCI	A WASTE	S			
60.	INDUSTRIAL	USER DISCHARGES	AND RCRA/CERCLA	WASTES				
Refer	to the Supplemer	ntal Application Inform	ation to determine who	ether Part F	applies to th	e treatment works.		
All treat		ing discharges from sign	ificant industrial users or t	which receiv	e RCRA, CER	CLA, or other remedial	wastes m	ust complete
GENE	RAL INFORMAT	ION						··· ··································
60.1	PRETREATMEN							
Does th	A		an approved pretreatment	program?				
60.2	NUMBER OF NO PROVIDE THE I WORKS.	ON-CATEGORICAL SIG NUMBER OF EACH OF	INIFICANT INDUSTRIAL THE FOLLOWING TYPE	USERS, or S S OF INDUS	SIUS AND CAT STRIAL USER:	EGORICAL INDUSTR S THAT DISCHARGE	RIAL USER TO THE T	S, or CIUs. REATMENT
A .	Number of Non-	Categorical SIUs		В.	Number of CIL	Js		
60.3	SIGNIFICANT IN	IDUSTIRAL USER INFO	RMATION					
	the following inform additional pages as		ore than one SIU dischar	ges to the tre	eatment works,	provide the information	on requeste	ed for each.
MAILING	ADDRESS				CITY		STATE	ZIP
60.4	INDUSTRIAL PR	OCESSES						and a second
			ES THAT AFFECT OR C	ONTRIBUTE	TO THE SIU	s DISCHARGE.		24.25262728
60.5	PRINCIPAL PRO	DUCT(S) AND RAW M	ATERIAL (S)	·			- /3	
Describ	e all of the principle	processes and raw mat	erials that affect or contril	bute to the S	IU's discharge	•		4
PRINCIP	AL PRODUCT(S)						920	977
RAW MA	TERIAL(S)						- S	
60.6	FLOW RATE							960
A .	PROCESS WAS gallons per day, or	TEWATER FLOW RATE or gpd, and whether the	. Indicate the average de discharge is continuous o	aily volume of intermittent	of process was t.	ewater discharged into	the collec	tion system in
	gpd	☐ Continuous	☐ Intermittent					
B. C.	NON-PROCESS system in gallons	WASTEWATER FLOW per day, or gpd, and wh	RATE. Indicate the average is contained the discharge is contained to the contained the contained to the con	age daily vol ntinuous or i	ume of non-pro ntermittent.	ocess wastewater disc	harged into	the collection
	gpd	☐ Continuous	☐ Intermittent					
60.7	PRETREATMEN							
_		subject to the following						
A.	Local Limits		☐ Ye		□ No			
B. If subjec		eatment Standards treatment standards, whi	☐ Ye ich category and subcateç		□ No			
60.8	PRORIEMS AT T	HE TREATMENT MADE	KS ATTRIBUTED TO WA	OTE DIOC	ADOED THE	F 011		
	SIU caused or cont	ributed to any problems	(e.g., upsets, interference) at the tree	ment works in	the nest there was == 2		
☐ Yes	□ No	If Yes, describe each		, at the treat	DIIGIR WORKS HI	uie past uiree years?		
			•					

	R EACH OUTFALL.	
FACILITY NAME	PERMIT NO.	OUTFALL NO.
Diamond WUTT	MO-0042013	002
PART F - INDUSTRIAL USER DISCHARGE		
60.9 RCRA HAZARDOUS WASTE RECEIVE		
RCRA WASTE. Does the treatment works receive Yes Var No	or has it in the past three years received	RCRA hazardous waste by truck, rail or dedicated pipe?
WASTE TRANSPORT. Method by which RCRA w	vaste is received. (Check all that apply)	
☐ Truck ☐ Rail ☐ Dedica		
WASTE DESCRIPTION. Give EPA hazardous wa	ste number and amount (volume or mas	s, specify units).
EPA HAZARDOUS WASTE NUMBER	AMOUNT	UNITS
60.10 CERCLA. OR SUPERFUND, WASTEW	ATER RORA REMEDIATION/CORREC	TIVE ACTION WASTEWATER AND OTHER REMEDIAL
ACTIVITY WASTEWATER	TEN, NOIS NEMEDIATION CONTINEO	THE NOTION WHO TENNIED STILL THE BILL
REMEDIATION WASTE. Does the treatment works	currently (or has it been notified that it	will) receive waste from remedial activities?
☐ Yes ☐ No Provide a list of sites	s and the requested information for each	
60.11 WASTE ORIGIN		
Describe the site and type of facility at which the Cl	ERCLA/RCRA/or other remedial waste of	originates (or is expected to originate in the next five years).
		,
60.12 POLLUTANTS		
	r are expected to be received). Include:	d data on volume and concentration, if known. (Attach
additional sheets if necessary)	are expected to be received). Included	, , , , , , , , , , , , , , , , , , , ,
		3627282930
		D'ALLE STORY
		- CHARLES C
		2013
60.13 WASTE TREATMENT		300
A. Is this waste treated (or will it be treated)	prior to entering the treatment works?	Salind
Yes No	about the same and afficient to	-\$-
If Yes, describe the treatment (provide information a	лооц тне гетночал етносенсу):	70.
		अश्वाहाराएँ
		ı
☐ Continuous ☐ Intermit		
☐ Continuous ☐ Intermit		***************************************
,		,
☐ Continuous ☐ Intermit		

MAKE ADD	DITIONA	L COPIES (OF THIS FOR	M FOR EACH OUT	FALL.					
FACILITY NA	AME	1 .		PERMIT NO.				OUTFALL NO.	^.^^	
D	ane	<u>nd (v)</u>	WIF	MO- 000	420	13			002	
			VER SYSTE							
70. C	OMBIN	ED SEWE	R SYSTEMS	S (COMPLETE THE	S PAR	T IF TH	E TREATMENT WOR	KS HAS A COME	HNED SEWER	SYSTEM.)
Refer to th	ne Supp	lemental A	pplication In	formation to deter	mine	whethe	r Part G applies to t	he treatment wo	rks. A	
	YSTEM						· · · · · · · · · · · · · · · · · · ·		1127	
	-			e included with bas	ic appl	ication i	nformation.)			
A B		All CSO Dis	•	ntially Affacted by C	-SO-	lo a ha	aches, drinking water:	eunnline ehallfich	hade consitive	aguatia
Ь				ling Natural Resour			acres, uniking water	виррнев, эненият	beds, sensitive	aquauc
С		-		-			Potentially Affected by	CSOs.		
70.2 S	YSTEM	DIAGRAM								
Provide a di information:		either in the	map provided	above or on a sepa	rate dr	awing,	of the Combined Sewe	r Collection Syste	m that includes	the following
Α.			-	Trunk Lines, Both C						
B. C.						s Feed i	nto the Combined Sew	ver System.		
D.	-		r in-Line or Off f Flow-Regulat	f-Line Storage Structing Devices.	wies.					7526272
E.			f Pump Station	•						10.75
70.3 PI	ERCENT	OF COLLE	CTION SYST	EM THAT IS COME	SINED	SEWER	2 0		/ 1	79
70.4 PC	OPULAT	ION SERVE	D BY COMBI	NED SEWER COLI	ECTIO	ON SYS			12	2 2 1 1 1 1
							R COLLECTION SYST		ক	SEP A
							CSO DISCHARGE PO			
		TION OF OL		TOLLOWING ON		LACI	COO DISCHARGE P	Oll41		1 10
			JIFALL						- 3	
	utfall Nu	mber								79/9/24
B. Lo	ocation									13 13 19 19
C. Di	ietanca fr	om Shore (i	if applicable)	<u> </u>		I D.	Dooth Bolow C	Surface (if applicat	1-1	
0. 01	ft	on once (i	ii applicable)			٦	ft Deptil Below S	ourrace (ii applicat	ne)	
E. W		ne following	were monitore	ed during the last ye	ar for t	his CSC				
Rainfall		CSO Pollu	stant Concentr	ations		cso	CSO Flow Volum	me 🔲 R	eceiving Water (Quality
F. Ho	ow many	storm even	ts were monito	ored last year?						
70.8 CS	SO EVEN	VTS								
A. Give th	he Numb	er of CSO E	vents in the L	ast Year		B.	Give the Average Dura	ation Per CSO Ev	ent	
Event			Actual	Approximate)		Hours	☐ Actual	☐ Approxi	
	he Avera n Gallons	•	Per CSO Ever			D.	GIVE THE MINIMUM THE LAST YEAR			DEVENT IN
			Actual CEIVING WA	Approximate	1	<u> </u>	THE DAST TEAK	INCHES OF	KAINFALL	
		eceiving Wa		12.10						
B. Na	me of W	atershed/Ri	ver/Stream Sy	stem	U.S.	Soil Co	nservation Service 14-	Digit Watershed (Code (If Known)	
Name of Stat	te Manag	gement/Rive	er Basin		U.S.	Geolog	Ical Survey 8- Digit Hy	drologic Catalogin	g Unit Code (If I	(nown)
70.10 CS	SO OPER	RATIONS			L					
Describe any	known v	water quality	/ impacts on the fish kills, fish	e receiving water c advisories, other re	aused	by this (CSO (e.g., permanent s, or violation of any ap	or intermittent bea plicable state wat	ch closings, per er quality standa	manent or rd.)
REFER TO 0 780-1805 (09-0	THE AI	PPLICATIO	ON OVERVII			OF PAR	RT G. OTHER PARTS OF	FORM B2 YOU	MUST COMP	LETE.

MAKE ADDITIONAL COPIES OF THIS FORM FOR E	ACH OUTFALL.					
77.101=11.101	RMIT NO.		OUTFALL NO.			
Diamond water M	0-0042013		<u>DQ3</u>			
PART E - TOXICITY TESTING DATA						
50. TOXICITY TESTING DATA						
Refer to the Supplemental Application Information	n to determine whether	r Part E applies to the tr	eatment works.			
Publicly owned treatment works, or POTWS, med				toxicity		
tests for acute or chronic toxicity for each of the fa			•	·		
A. POTWs with a design flow rate greate	r than or equal to 1 mil	lion gallons per day.				
B. POTWs with a pretreatment program (or those that are requi	red to have one under 4	0 CFR Part 403).			
C. POTWs required by the permitting aut	•	-				
At a minimum, these results must include quarterly testing for a 12-month period within the past one year using multiple species (minimum of two species), or the results from four tests performed at least annually in the four and one-half years prior to the application, provided the results show no appreciable toxicity, and testing for acute or chronic toxicity, depending on the range of receiving water dilution. Do not include information about combined sewer overflows in this section. All information reported must be based on data collected through analysis conducted using 40 CFR Part 136 methods. In addition, this data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136.						
all of the information requested be complete Part E. Refer to the appl	low, they may be subm lication overview for dir	nitted in place of Part E. rections on which other		do not		
50.1 REQUIRED TESTS. INDICATE THE NUMBI YEARS.	ER OF WHOLE EFFLUE	NT TOXICITY TESTS CON	DUCTED IN THE PAST FOUR AND ON	E-HALF		
CHRONIC		ACUTE	•			
INDIVIDUAL TEST DATA. Complete the following chart constitutes a test). Copy this page if more than three te	t for the last three whole ests are being reported.					
	MOST RECEN	T 2 ND MOST	RECENT 3RD MOST RECE	NT		
A. TEST INFORMATION	<u> </u>		And the second	5 3/ J		
TEST NUMBER				ا درد		
TEST SPECIES AND TEST METHOD NUMBER			/\dolday			
AGE AT INITIATION OF TEST			/ <i>N</i>			
OUTFALL NUMBER						
DATES SAMPLE COLLECTED DATE TEST STARTED						
DURATION	 		- 2			
B. GIVE TOXICITY TEST METHODS FOLLOWED				*******		
MANUAL TITLE			9/9/11/013	1661		
EDITION NUMBER AND YEAR OF PUBLICATION		· · · · · · · · · · · · · · · · · · ·	3/1/21/6			
PAGE NUMBER(S)						
C. GIVE THE SAMPLE COLLECTION METHOD(S) US	SED. FOR MULTIPLE G	RAB SAMPLES, INDICATE	THE NUMBER OF GRAB SAMPLES US	SED.		
24-HOUR COMPOSITE						
GRAB						
D. INDICATE WHERE THE SAMPLE WAS TAKEN IN						
BEFORE DISINFECTION						
AFTER DISINFECTION	<u> </u>					
AFTER DECHLORINATION E. DESCRIBE THE POINT IN THE TREATMENT PRO	CESS AT WHICH THE S	AMPLE WAS COLLECTED				
SAMPLE WAS COLLECTED	ALSS AT TABLE THE S	MINISTE WAS COLLECTE				
F. FOR EACH TEST, INCLUDE WHETHER THE TEST	T WAS INTENDED TO A	SSESS CHRONIC TOXICI	TY, ACUTE TOXICITY OR BOTH			
CHRONIC TOXICITY						
ACUTE TOXICITY		<u> </u>	Ō			
G. PROVIDE THE TYPE OF TEST PERFORMED						
STATIC						
STATIC STATIC-RENEWAL	a	0				
FLOW-THROUGH		0				
H. SOURCE OF DILUTION WATER. IF LABORATOR	Y WATER, SPECIFY TY	PE; IF RECEIVING WATER	R, SPECIFY SOURCE			
LABORATORY WATER						
RECEIVING WATER						
AO 780-1805 (09-08)						

FACILITY NAME	PERMIT NO.	OUTFALL NO.	
Diamad WUTT	MO-0047013		o3
PART E - TOXICITY TESTING DATA (CON			
50.1 WHOLE EFFLUENT TOXICITY TESTS			
	MOST RECENT	2 ND MOST RECENT	3 RD MOST RECENT
TYPE OF DILUTION WATER, IF SALT WATER	R, SPECIFY "NATURAL" OR TYPE	OF ARTIFICIAL SEA SALTS OR	BRINE USED.
FRESH WATER		<u> </u>	
SALT WATER J. GIVE THE PERCENTAGE EFFLUENT USED	FOR ALL CONCENTRATIONS IN T	LE TEST SEDIES	
. GIVE THE PERCENTAGE EFFLUENT USED	T TOR ALL CONCENTRATIONS IN T	TIE TEST SERIES.	
K. PARAMETERS MEASURED DURING THE TE	ST. (STATE WHETHER PARAMET	ER MEETS TEST METHOD SPI	ECIFICATIONS)
pH			
SALINITY			
TEMPERATURE		· · · · · · · · · · · · · · · · · · ·	
AMMONIA			<u> </u>
DISSOLVED OXYGEN			
L. TEST RESULTS ACUTE:			
PERCENT IN SURVIVAL IN 100% EFFLUENT	. 1	1	T
LC ₅₀			-
95% C.I.			
CONTROL PERCENT SURVIVAL			and the same
OTHER (DESCRIBE)			56.262728
CHRONIC:			100
NOEC			1 / V
IC ₂₅	<u> </u>		1/2/
CONTROL PERCENT SURVIVAL			77
OTHER (DESCRIBE) M. QUALITY CONTROL ASSURANCE		<u> </u>	020
IS REFERENCE TOXICANT DATA		<u> </u>	1 30
AVAILABLE?			
WAS REFERENCE TOXICANT TEST WITHIN ACCEPTABLE BOUNDS?			3 SINEISTING
WHAT DATE WAS REFERENCED TOXICANT TEST RUN (MM/DD/YYYY)?			
OTHER (DESCRIBE)			
0.2 TOXICITY REDUCTION EVALUATION			-
s the treatment works involved in a toxicity reduction fyes, describe:	on evaluation? ☐ Yes	□No	
0.3 SUMMARY OF SUBMITTED BIOMONIT			
f you have submitted biomonitoring test information lates the information was submitted to the permitting	n, or information regarding the cause	of toxicity, within the past four a	nd one-half years, provide the
lates the information was submitted to the permitting of the permi	ng authority and a summary of the r	asuns.	
rate outsimiles (MMVDD/1111)			
cummary of Results (See Instructions)			
	END OF PART E		
	TO DETERMINE WHICH OTH		

MAKE A	ADDITIONAL COP	IES OF THIS FORM FO	R EACH OUTFALL.					
FACILITY	NAME		PERMIT NO.			OUTFALL NO).	
	Jamondi	MITTE	MO- 00 H301	<u> </u>			<u> </u>	
PART			S AND RCRA/CERCL					
60.	INDUSTRIAL	USER DISCHARGES	AND RCRA/CERCLA	WASTE	S			
Refer to	the Supplemen	tal Application Informa	ation to determine whe	ther Part	F app	lies to the treatment	works.	
All treatr		ng discharges from signi	ficant industrial users or v	vhich rece	ive RCI	RA, CERCLA, or other	remedial wastes mu	st complete
GENEF	RAL INFORMAT							
60.1	PRETREATMEN							
Does the	e treatment works No ∑ No	· ·	n approved pretreatment	program?	•			
60.2	NUMBER OF NO	ON-CATEGORICAL SIGI	NIFICANT INDUSTRIAL I THE FOLLOWING TYPE	USERS, 0 S OF IND	r SIUs / USTRIA	AND CATEGORICAL I AL USERS THAT DISC	NDUSTRIAL USERS CHARGE TO THE TR	6, or CIUs. REATMENT
Α.	Number of Non-	Categorical SIUs		В.	Numi	ber of CIUs		
60.3	SIGNIFICANT IN	IDUSTIRAL USER INFO	RMATION					
	he following inform additional pages as		ore than one StU dischar	ges to the	treatme	ent works, provide the i	nformation requeste	d for each.
NAME								
MAILING	ADDRESS					CITY	STATE	ZIP
60.4	INDUSTRIAL PR	OCESSES						
DESCRI	BE ALL OF THE I	NDUSTRIAL PROCESSI	ES THAT AFFECT OR C	ONTRIBU	TE TO	THE SIU's DISCHARG	SE. :	762728
60.5		DUCT(S) AND RAW MA						*
		processes and raw mate	erials that affect or contrib	oute to the	SIU's	discharge.		DECEME
PRINCIPA	AL PRODUCT(S)						, /	RECEIVE SEP 201
RAW MA	TERIAL(S)						E	DEQ/SWR
60.6	FLOW RATE						40.4	
Α.			. Indicate the average da discharge is continuous o			cess wastewater disch	arged into the collec	tion system in
	gpd	☐ Continuous	☐ Intermittent					
B.	NON-PROCESS	WASTEWATER FLOW	RATE. Indicate the average the discharge is con	age daily v	olume	of non-process wastew	vater discharged into	the collection
C.	oyoto m gamoni	, per cay, or gpa, and un						
	gpd	☐ Continuous	Intermittent					
60.7	PRETREATMEN	T STANDARDS						
		subject to the following	FT v					
A. B.	Local Limits	eatment Standards	[] Ye [] Ye			No		
			ch category and subcate			No		
60.8	PROBLEMS AT	THE TREATMENT WOR	KS ATTRIBUTED TO WA	ASTE DIS	CHARC	SED BY THE SILL		
			(e.g., upsets, interference				e vears?	
☐ Yes	☐ No	If Yes, describe each		,		The man pacture		

THE PERSON OF THE PROPERTY OF THE PERSON OF	OR EACH OUTFALL.	
FACILITY NAME	PERMIT NO.	OUTFALL NO.
Diamond WUTF	MO-0042013	003
ART F - INDUSTRIAL USER DISCHARGE	ES AND RCRA/CERCLA WASTES	(CONTINUED)
	D BY TRUCK, RAIL, OR DEDICATED PI	
RCRA WASTE. Does the treatment works receive	or has it in the past three years received	RCRA hazardous waste by truck, rail or dedicated pipe?
☐ Yes	waste is received (Check all that anniv)	
Truck		
VASTE DESCRIPTION. Give EPA hazardous wa		s, specify units).
EPA HAZARDOUS WASTE NUMBER	AMOUNT	UNITS
	-	
	-	
0.10 CERCLA, OR SUPERFUND, WASTEW	ATER RORA REMEDIATION/CORRECT	TIVE ACTION WASTEWATER AND OTHER REMEDIAL
CTIVITY WASTEWATER	, it est, it is to the late of	
EMEDIATION WASTE. Does the treatment work	• •	•
The state of the s	s and the requested information for each	current and future site.
0.11 WASTE ORIGIN	NEDOLA (DODA (
escribe the site and type of facility at which the o	CRODARCIOVOI OBIEI TEITIEGIAI WASIE O	riginates (or is expected to originate in the next five years).
st the hazardous constituents that are received (ditional sheets if necessary)	or are expected to be received). Included	d data on volume and concentration, if known. (Attach
		\$
		RECEIVED
O 12 MARTE TOCATACEIT		^FD 0010
0.13 WASTE TREATMENT		SEP 2013
. Is this waste treated (or will it be treated)	prior to entering the treatment works?	SEP 2013
is this waste treated (or will it be treated) ☐ Yes ☐ No		SEP 2013
is this waste treated (or will it be treated) Yes No		SEP 2013
is this waste treated (or will it be treated) Yes No		SEP 2013
is this waste treated (or will it be treated) Yes No		SEP 2013
is this waste treated (or will it be treated) Yes No		SEP 2013
A. Is this waste treated (or will it be treated) ☐ Yes ☐ No		SEP 2013
A. Is this waste treated (or will it be treated) ☐ Yes ☐ No f Yes, describe the treatment (provide information	about the removal efficiency):	SEP 2013
A. Is this waste treated (or will it be treated) ☐ Yes ☐ No I Yes, describe the treatment (provide information	about the removal efficiency):) continuous or intermittent?	SEP 2013
Is this waste treated (or will it be treated) Yes No Yes, describe the treatment (provide information Is the discharge (or will the discharge be Continuous Interni	about the removal efficiency):) continuous or intermittent?	SEP 2013
Is this waste treated (or will it be treated) Yes No Yes, describe the treatment (provide information Is the discharge (or will the discharge be Continuous Interni	about the removal efficiency):) continuous or intermittent?	SEP 2013
A. Is this waste treated (or will it be treated) Yes No f Yes, describe the treatment (provide information) B. Is the discharge (or will the discharge be	about the removal efficiency):) continuous or intermittent?	SEP 2013
Is this waste treated (or will it be treated) Yes No Yes, describe the treatment (provide information Is the discharge (or will the discharge be Continuous Interni	about the removal efficiency):) continuous or intermittent?	SEP 2013
Is this waste treated (or will it be treated) Yes No Yes, describe the treatment (provide information Is the discharge (or will the discharge be Continuous Interni	about the removal efficiency):) continuous or intermittent?	SEP 2013
Is this waste treated (or will it be treated) Yes No Yes, describe the treatment (provide information Is the discharge (or will the discharge be Continuous Interni	about the removal efficiency):) continuous or intermittent?	SEP 2013
Is this waste treated (or will it be treated) Yes No Yes, describe the treatment (provide information Is the discharge (or will the discharge be Continuous Intermi	about the removal efficiency):) continuous or intermittent?	SEP 2013

MAKE ADDITIONAL COPI	ES OF THIS FORM FOR EACH OUT	FALL					٦
FACILITY NAME	PERMIT NO.			OUTFALL NO.			+
Diamond	WWTF MO-00	470	13	(003		
PART G - COMBINED							†
70. COMBINED SE	WER SYSTEMS (COMPLETE THI	S PART	IF THE TREATMENT WOR	KS HAS A COME	SINED SEWER SYST	EM.)	7
Refer to the Supplement	al Application Information to deter	mine v	vhether Part G applies to t	ne treatment wo	orks. All]
70.1 SYSTEM MAP					14-7]
_	e following: (May be included with bas	ic applic	cation information.)				7
	Discharges.	°°°° (a haashaa daakiaa watar	unalias aballfab	hada sansitiva savet	41	
	e Use Areas Potentially Affected by C ems and Outstanding Natural Resour			supplies, sneimsn	beas, sensitive aquai	AC .	
C. Waters	that Support Threatened and Endang	ered Sp	ecies Potentially Affected by	CSOs.			
70.2 SYSTEM DIAGRA	AM						
	the map provided above or on a sepa	rate dra	wing, of the Combined Sewe	r Collection Syste	m that includes the fo	llowing	1
information: A. Location	ns of Major Sewer Trunk Lines, Both (Combine	and Senarate Senitary				
	ns of Points where Separate Sanitary		•	er System.			
	ns of In-Line or Off-Line Storage Struc						ı
1	ns of Flow-Regulating Devices.						
	ns of Pump Stations.		DC14ED >			200	-
	DLLECTION SYSTEM THAT IS COM					25262	1/<
	RVED BY COMBINED SEWER COL						4
	ATELLITE COMMUNITY WITH COM					71-21	
70.6 CSO OUTFALLS.	COMPLETE THE FOLLOWING ON	CE FOR	EACH CSO DISCHARGE PO	DINT	gaga. Cing	RECI	J.,
70.7 DESCRIPTION O	F OUTFALL				Nasc 1	SEP	20
A. Outfall Number					. 19.5	1F 1/	100
B. Location					, s*	,	1
C. Distance from Sho	ore (if applicable)		· ·	Surface (if applicat	ble)	- 1	١.
E. Which of the follow	ving were monitored during the last ye	ar for th	ft				-
	Pollutant Concentrations		CSO CSO Flow Volui	me ∏R	eceiving Water Qualit	v	-
F. How many storm	events were monitored last year?			_		,	1
70.8 CSO EVENTS							┨
	SO Events in the Last Year		B. Give the Average Dur	ation Per CSO Ev	vent	-	1
Events	Actual Approximate	e	Hours	☐ Actual	☐ Approximate	,	
C. Give the Average Volu		,	D. GIVE THE MINIMUM			ENT IN	1
70.9 DESCRIPTION O	☐Actual ☐ Approximate ☐ RECEIVING WATERS	B	THE LAST YEAR _	INCHES OF	RAINFALL		
A. Name of Receiving							ł
							l
B. Name of Watersho	ed/River/Stream System	U.S.	Soil Conservation Service 14	Digit Watershed	Code (If Known)		
Name of State Management	River Basin	U.S.	Geological Survey 8- Digit Hy	drologic Catalogii	ng Unit Code (If Know	n)	
70.10 CSO OPERATION							
Describe any known water q intermittent shellfish bed clos	uality impacts on the receiving water of sings, fish kills, fish advisories, other re	aused (ecreatio	by this CSO (e.g., permanent nal loss, or violation of any ap	or intermittent beau plicable state wat	ach closings, permane ter quality standard.)	ent or	
REFER TO THE APPLIC	ATION OVERVIEW TO DETERM		PF PART G. HICH OTHER PARTS OF	FORM B2 YOU	I MUST COMPLET	re	

MAKE ADDITIONAL COPIES OF THIS FORM FOR E		Lauren	
THOILIT I TIME	0- 0042013	OUTFALL NO.	004
PART E - TOXICITY TESTING DATA N			2
50. TOXICITY TESTING DATA			
Refer to the Supplemental Application Information	n to determine whether Part F	applies to the treatment wor	ks.
Publicly owned treatment works, or POTWS, med			
tests for acute or chronic toxicity for each of the fa	acility's discharge points.		
A. POTWs with a design flow rate greater	r than or equal to 1 million ga	llons per day.	
B. POTWs with a pretreatment program (or those that are required to	have one under 40 CFR Part	403).
C. POTWs required by the permitting aut	honty to submit data for these	parameters	•
 At a minimum, these results must is species (minimum of two species), prior to the application, provided the on the range of receiving water dilustriation reported must be base addition, this data must comply with standard methods for analytes not 	or the results from four tests re results show no appreciable ution. Do not include informat d on data collected through a th QA/QC requirements of 40	performed at least annually in e toxicity, and testing for acut tion about combined sewer or nalysis conducted using 40 C CFR Part 136 and other appr	n the four and one-half years e or chronic toxicity, dependir verflows in this section. All FR Part 136 methods. In
 If EPA methods were not used, rep all of the information requested bel complete Part E. Refer to the appl 	oort the reason for using altern low, they may be submitted in lication overview for directions	native methods. If test summ place of Part E. If no biomo s on which other sections of t	nitoring data is required, do n ne form to complete.
50.1 REQUIRED TESTS. INDICATE THE NUMBE YEARS.	ER OF WHOLE EFFLUENT TOX	ICITY TESTS CONDUCTED IN	THE PAST FOUR AND ONE-HA
CHRONIC	ACUTE		
NDIVIDUAL TEST DATA. Complete the following chart	for the last three whole effice:	nt toxicity tests. Allow one colu	mn ner test (where each species
constitutes a test). Copy this page If more than three te	sts are being reported.		mi poi toot (micro cacii species
	MOST RECENT	2 ND MOST RECENT	3 RD MOST RECENT
A. TEST INFORMATION			262722
TEST NUMBER			7526272829
TEST SPECIES AND TEST METHOD NUMBER			100
AGE AT INITIATION OF TEST			1/37
OUTFALL NUMBER			ZY SECENT
DATES SAMPLE COLLECTED			, N
DATE TEST STARTED			SEP 2018
DURATION			THE WAY
3. GIVE TOXICITY TEST METHODS FOLLOWED			72
MANUAL TITLE			
EDITION NUMBER AND YEAR OF PUBLICATION			30
PAGE NUMBER(S)			
		150 100 100 100 100 100 100 100 100 100	
: GIVE THE SAMPLE COLLECTION METHOD/S\LIS	TEID ECHO MILIETIDI E CIDAD CAI		
	ED. FOR MULTIPLE GRAB SA	MPLES, INDICATE THE NUMBE	R OF GRAB SAMPLES USED.
24-HOUR COMPOSITE	ED. FOR MULTIPLE GRAB SA	MPLES, INDICATE THE NUMBE	R OF GRAB SAMPLES USED.
24-HOUR COMPOSITE GRAB			
24-HOUR COMPOSITE GRAB D. INDICATE WHERE THE SAMPLE WAS TAKEN IN I	RELATION TO DISINFECTION.	(CHECK ALL THAT APPLY FOR	R EACH)
24-HOUR COMPOSITE GRAB D. INDICATE WHERE THE SAMPLE WAS TAKEN IN I BEFORE DISINFECTION	RELATION TO DISINFECTION.	(CHECK ALL THAT APPLY FOR	R EACH)
24-HOUR COMPOSITE GRAB D. INDICATE WHERE THE SAMPLE WAS TAKEN IN I BEFORE DISINFECTION AFTER DISINFECTION	RELATION TO DISINFECTION.	(CHECK ALL THAT APPLY FOR	R EACH)
24-HOUR COMPOSITE GRAB D. INDICATE WHERE THE SAMPLE WAS TAKEN IN I BEFORE DISINFECTION AFTER DISINFECTION AFTER DECHLORINATION	RELATION TO DISINFECTION.	(CHECK ALL THAT APPLY FOR	R EACH)
24-HOUR COMPOSITE GRAB D. INDICATE WHERE THE SAMPLE WAS TAKEN IN I BEFORE DISINFECTION AFTER DISINFECTION AFTER DECHLORINATION	RELATION TO DISINFECTION.	(CHECK ALL THAT APPLY FOR	R EACH)
24-HOUR COMPOSITE GRAB D. INDICATE WHERE THE SAMPLE WAS TAKEN IN I BEFORE DISINFECTION AFTER DISINFECTION AFTER DECHLORINATION DESCRIBE THE POINT IN THE TREATMENT PROC SAMPLE WAS COLLECTED	RELATION TO DISINFECTION. D CESS AT WHICH THE SAMPLE	(CHECK ALL THAT APPLY FOR	REACH)
24-HOUR COMPOSITE GRAB DINDICATE WHERE THE SAMPLE WAS TAKEN IN I BEFORE DISINFECTION AFTER DISINFECTION AFTER DECHLORINATION DESCRIBE THE POINT IN THE TREATMENT PROC SAMPLE WAS COLLECTED	RELATION TO DISINFECTION. D CESS AT WHICH THE SAMPLE WAS INTENDED TO ASSESS ((CHECK ALL THAT APPLY FOR	R EACH) C C C C C C C C C C C C C C C C C C C
24-HOUR COMPOSITE GRAB D. INDICATE WHERE THE SAMPLE WAS TAKEN IN I BEFORE DISINFECTION AFTER DISINFECTION AFTER DECHLORINATION DESCRIBE THE POINT IN THE TREATMENT PRO SAMPLE WAS COLLECTED FOR EACH TEST, INCLUDE WHETHER THE TEST	RELATION TO DISINFECTION. CONTROL CON	(CHECK ALL THAT APPLY FOR	R EACH) C C C C C C C C C C C C C C C C C C C
24-HOUR COMPOSITE GRAB D. INDICATE WHERE THE SAMPLE WAS TAKEN IN I BEFORE DISINFECTION AFTER DISINFECTION AFTER DECHLORINATION DESCRIBE THE POINT IN THE TREATMENT PROC SAMPLE WAS COLLECTED FOR EACH TEST, INCLUDE WHETHER THE TEST CHRONIC TOXICITY ACUTE TOXICITY	RELATION TO DISINFECTION. D CESS AT WHICH THE SAMPLE WAS INTENDED TO ASSESS ((CHECK ALL THAT APPLY FOR	R EACH) C C C C C C C C C C C C C C C C C C C
24-HOUR COMPOSITE GRAB D. INDICATE WHERE THE SAMPLE WAS TAKEN IN I BEFORE DISINFECTION AFTER DESINFECTION AFTER DECHLORINATION DESCRIBE THE POINT IN THE TREATMENT PROC SAMPLE WAS COLLECTED FOR EACH TEST, INCLUDE WHETHER THE TEST CHRONIC TOXICITY ACUTE TOXICITY B. PROVIDE THE TYPE OF TEST PERFORMED	RELATION TO DISINFECTION. CONTROL CESS AT WHICH THE SAMPLE WAS INTENDED TO ASSESS ((CHECK ALL THAT APPLY FOR	R EACH) CONCITY OR BOTH.
24-HOUR COMPOSITE GRAB D. INDICATE WHERE THE SAMPLE WAS TAKEN IN I BEFORE DISINFECTION AFTER DECHLORINATION DESCRIBE THE POINT IN THE TREATMENT PROS SAMPLE WAS COLLECTED FOR EACH TEST, INCLUDE WHETHER THE TEST CHRONIC TOXICITY ACUTE TOXICITY DESCRIBE THE TYPE OF TEST PERFORMED STATIC	RELATION TO DISINFECTION. CESS AT WHICH THE SAMPLE WAS INTENDED TO ASSESS ((CHECK ALL THAT APPLY FOR	REACH) CONCITY OR BOTH.
24-HOUR COMPOSITE GRAB D. INDICATE WHERE THE SAMPLE WAS TAKEN IN I BEFORE DISINFECTION AFTER DECHLORINATION E. DESCRIBE THE POINT IN THE TREATMENT PROC SAMPLE WAS COLLECTED FOR EACH TEST, INCLUDE WHETHER THE TEST CHRONIC TOXICITY ACUTE TOXICITY D. PROVIDE THE TYPE OF TEST PERFORMED STATIC STATIC STATIC-RENEWAL	RELATION TO DISINFECTION. CESS AT WHICH THE SAMPLE WAS INTENDED TO ASSESS ((CHECK ALL THAT APPLY FOR	REACH) CONCITY OR BOTH.
24-HOUR COMPOSITE GRAB D. INDICATE WHERE THE SAMPLE WAS TAKEN IN I BEFORE DISINFECTION AFTER DECHLORINATION DESCRIBE THE POINT IN THE TREATMENT PROC SAMPLE WAS COLLECTED FOR EACH TEST, INCLUDE WHETHER THE TEST CHRONIC TOXICITY ACUTE TOXICITY PROVIDE THE TYPE OF TEST PERFORMED STATIC STATIC STATIC-RENEWAL FLOW-THROUGH	RELATION TO DISINFECTION. CESS AT WHICH THE SAMPLE WAS INTENDED TO ASSESS ((CHECK ALL THAT APPLY FOR	R EACH) C C C C C C C C C C C C C C C C C C C
24-HOUR COMPOSITE GRAB D. INDICATE WHERE THE SAMPLE WAS TAKEN IN I BEFORE DISINFECTION AFTER DISINFECTION AFTER DECHLORINATION DESCRIBE THE POINT IN THE TREATMENT PROC SAMPLE WAS COLLECTED FOR EACH TEST, INCLUDE WHETHER THE TEST CHRONIC TOXICITY ACUTE TOXICITY PROVIDE THE TYPE OF TEST PERFORMED STATIC STATIC STATIC-RENEWAL FLOW-THROUGH SOURCE OF DILUTION WATER. IF LABORATORY	RELATION TO DISINFECTION. CESS AT WHICH THE SAMPLE WAS INTENDED TO ASSESS ((CHECK ALL THAT APPLY FOR	R EACH) CONTRIBUTION CONTRIB
GRAB D. INDICATE WHERE THE SAMPLE WAS TAKEN IN IT BEFORE DISINFECTION AFTER DISINFECTION AFTER DECHLORINATION E. DESCRIBE THE POINT IN THE TREATMENT PROC SAMPLE WAS COLLECTED E. FOR EACH TEST, INCLUDE WHETHER THE TEST CHRONIC TOXICITY ACUTE TOXICITY B. PROVIDE THE TYPE OF TEST PERFORMED STATIC STATIC STATIC-RENEWAL	RELATION TO DISINFECTION. CESS AT WHICH THE SAMPLE WAS INTENDED TO ASSESS ((CHECK ALL THAT APPLY FOR	R EACH) CONTRIBUTION CONTRIB

FACILITY NAME DI anad DUTT	PERMIT NO. MO- 0047013	OUTFALL NO.	x4
PART E - TOXICITY TESTING DATA (CON			
50.1 WHOLE EFFLUENT TOXICITY TESTS			·
30.1 WHOLE ETTEGENT TO MOTHER TEGET	MOST RECENT	2 ND MOST RECENT	3 RD MOST RECENT
I. TYPE OF DILUTION WATER, IF SALT WATER	R, SPECIFY "NATURAL" OR TYP	E OF ARTIFICIAL SEA SALTS OR	
FRESH WATER			
SALT WATER			
J. GIVE THE PERCENTAGE EFFLUENT USED I	OR ALL CONCENTRATIONS IN	THE TEST SERIES.	
		the state of the s	
K. PARAMETERS MEASURED DURING THE TE	ST. (STATE WHETHER PARAME	TER MEETS TEST METHOD SPE	CIFICATIONS)
pH			<u> </u>
SALINITY .			
TEMPERATURE			
AMMONIA			
DISSOLVED OXYGEN			
L. TEST RESULTS			627282
ACUTE:			36.162728293
PERCENT IN SURVIVAL IN 100% EFFLUENT			
LC ₅₀			
95% C.I.			SECENED
CONTROL PERCENT SURVIVAL			2013
OTHER (DESCRIBE)	<u></u>		
CHRONIC:		A	The state of the s
NOEC			i s
IC ₂₅			
CONTROL PERCENT SURVIVAL			1000
OTHER (DESCRIBE)			•
M. QUALITY CONTROL ASSURANCE IS REFERENCE TOXICANT DATA			
AVAILABLE?	1	1	
WAS REFERENCE TOXICANT TEST WITHIN ACCEPTABLE BOUNDS?			
WHAT DATE WAS REFERENCED TOXICANT TEST RUN (MM/DD/YYYY)?			
OTHER (DESCRIBE)			
50.2 TOXICITY REDUCTION EVALUATION	***************************************		
s the treatment works involved in a toxicity reduction f yes, describe:	n evaluation? Yes	□ No	
50.3 SUMMARY OF SUBMITTED BIOMONITO	RING TEST INFORMATION		
f you have submitted biomonitoring test information, lates the information was submitted to the permitting	or information regarding the caus	e of toxicity, within the past four and	one-half years, provide the
Date Submitted (MM/DD/YYYY)	, additionly and a summary of the r	esurs.	
Summary of Results (See Instructions)			
	V		

MAKE A	ADDITIONAL COPIES OF THIS FORM FOR EACH OUTFALL.			
FACILITY	NAME PERMIT NO.	_	OUTFALL NO.	, <u>)</u>
7	Diamondustif MO-004201		00	7
PART	F - INDUSTRIAL USER DISCHARGES AND RCRA/CERC			7
60.	INDUSTRIAL USER DISCHARGES AND RCRA/CERCL	A WASTES		
Refer to	the Supplemental Application Information to determine who	ether Part F ap	olies to the treatment works.	
All treatr	ment works receiving discharges from significant industrial users or 1.	which receive RO	CRA, CERCLA, or other remedia	al wastes must complete
GENER	RAL INFORMATION			
60.1	PRETREATMENT PROGRAM			4.4
	e treatment works have, or is it subject to, an approved pretreatmen	it program?		
60.2	风 No NUMBER OF NON-CATEGORICAL SIGNIFICANT INDUSTRIAL PROVIDE THE NUMBER OF EACH OF THE FOLLOWING TYPE WORKS.	USERS, or SIUS ES OF INDUSTRI	AND CATEGORICAL INDUST AL USERS THAT DISCHARGE	RIAL USERS, or CIUs. TO THE TREATMENT
A.	Number of Non-Categorical SIUs	B. Nun	nber of CIUs	
60.3	SIGNIFICANT INDUSTIRAL USER INFORMATION			
	he following information for each SIU. If more than one SIU dischar	rges to the treatm	ent works, provide the informat	ion requested for each.
Submit a	additional pages as necessary.			
NAME				
MAILING	ADDRESS		CITY	STATE ZIP 912829303
60.4	INDUSTRIAL PROCESSES			1 12020303
DESCRI	BE ALL OF THE INDUSTRIAL PROCESSES THAT AFFECT OR C	CONTRIBUTE TO	THE SIU'S DISCHARGE.	The state of the s
60.5	PRINCIPAL PRODUCT(S) AND RAW MATERIAL (S)	·		JECENIE A3
Describe	all of the principle processes and raw materials that affect or contri	ibute to the SIU's	discharge.	2010
	AL PRODUCT(S)			JE O GMIKE
TOTAL MIN	TERIAL(S)			
60.6	FLOW RATE			्भ शासाहर
Α.	PROCESS WASTEWATER FLOW RATE. Indicate the average digallons per day, or gpd, and whether the discharge is continuous gpd	ally volume of pro or intermittent.	ocess wastewater discharged in	to the collection system in
В.	NON-PROCESS WASTEWATER FLOW RATE. Indicate the aver	rage daily volume	of non-process wastewater dis	charged into the collection
C.	system in gallons per day, or gpd, and whether the discharge is co	ontinuous or interr	nittent.	•
O .	gpd ☐ Continuous ☐ Intermittent			
60.7	PRETREATMENT STANDARDS			
	whether the SIU is subject to the following			
A.	Local Limits	es [] No	
В.	Categorical Pretreatment Standards		No	
If subject	to categorical pretreatment standards, which category and subcate	gory?		
00.0	PROPILETO AT THE TOP AT THE PROPILETO AT			
60.8	PROBLEMS AT THE TREATMENT WORKS ATTRIBUTED TO WARD CONTRIBUTED TO	ASTE DISCHAR	SED BY THE SIU	
∐ Yes	☐ No If Yes, describe each episode		n works in the past thee years:	
780-1805 (09-08)			

MAKE ADDITIONAL COPIES OF THIS FORM FO	OR EACH OUTFALL.	
FACILITY NAME	PERMIT NO.	OUTFALL NO. DO 4
Diamond WUTT	MO-0042013	
PART F - INDUSTRIAL USER DISCHARGI		
	D BY TRUCK, RAIL, OR DEDICATED PI	
RCRA WASTE. Does the treatment works receive Yes No	or has it in the past three years received	RCRA hazardous waste by truck, rail or dedicated pipe?
WASTE TRANSPORT. Method by which RCRA w	vaste is received. (Check all that apply)	
☐ Truck ☐ Rail ☐ Dedica		
WASTE DESCRIPTION. Give EPA hazardous wa	iste number and amount (volume or mass	, specify units).
EPA HAZARDOUS WASTE NUMBER	AMOUNT	UNITS
	·	
60.10 CERCLA, OR SUPERFUND, WASTEW	ATER, RCRA REMEDIATION/CORRECT	IVE ACTION WASTEWATER AND OTHER REMEDIAL
ACTIVITY WASTEWATER		
REMEDIATION WASTE. Does the treatment work		
	s and the requested information for each	current and future site.
60.11 WASTE ORIGIN	EDCI A/DCBA/or other remedial waste or	iginates (or is expected to originate in the next five years).
course are one and type or reality at writing are		ignation (or to disposed to originate in the float inte years).
		3.26272825
		*** **********************************
		1 m
60.12 POLLUTANTS		to the
List the hazardous constituents that are received (cadditional sheets if necessary)	or are expected to be received). Included	data on volume and concentration, if knewn. (Attach 2)
auditional silects it necessary)		
		3.
		73. A.
		3,814181
30.13 WASTE TREATMENT		
A. Is this waste treated (or will it be treated) Yes No	prior to entering the treatment works?	
☐ Yes ☐ No f Yes, describe the treatment (provide information a	shout the removel efficiency:	
res, describe the deadness (provide and matter)	about the removal emclency).	
Is the discharge (or will the discharge be)	continuous or intermittent?	
Continuous Intermit		
f intermittent, describe the discharge schedule:		
•		
PPPD TO THE ABOUT A SECOND	END OF PART F	
FER TO THE APPLICATION OVERVIEW (780-1805 (09-08)	TO DETERMINE WHICH OTHER PA	ARTS OF FORM B2 YOU MUST COMPLETE.
- 1000 (05°00)		

MAKE	ADDITIONA	N COPIES	R OF THIS	FORM FO	OR EACH OUT	FALL.										
	Y NAME	TE COLIE	001 11110	101441	PERMIT NO.						OUTI	ALL NO.	· · · · ·			
T	Siamo	and t	Thelle	F	MO- 00	420	13						00	14		
PART	G - COM			STEMS		11/								-/		
70.					OMPLETE TH	S PAR	T IF TH	E TR	EATM	ENT W	ORKS HA	S A CO	ABINED	SEWER	SYST	EM.)
Refer t	to the Supr	plemental	Applicati	on Inform	ation to deter	mine v	whethe	er Par	t G ap	oplies to	o the tre	atment v	vorks.	AIL		
70.1	SYSTEM													A-12		
Provide	a map indi	cating the	following: (May be inc	duded with bas	ic appli	cation i	nform	ation.)			,				
	A.		Discharges													
	 Sensitive Use Areas Potentially Affected by CSOs. (e.g., beaches, drinking water supplies, shellfish beds, sensitive aquatic ecosystems and Outstanding Natural Resource Waters.) 													tic		
	C.				ed and Endang			Potent	ially A	ffected I	by CSOs.					
70.2		DIAGRA														
	a diagram.	either in th	ne map pro	vided abov	ve or on a sepa	rate dr	awing,	of the	Comb	ined Se	wer Colle	ction Sys	tem that	includes	the fo	ollowing
informat												•				J
	A. Locations of Major Sewer Trunk Lines, Both Combined and Separate Sanitary.															
	 B. Locations of Points where Separate Sanitary Sewers Feed into the Combined Sewer System. C. Locations of In-Line or Off-Line Storage Structures. 															
	D. Locations of Flow-Regulating Devices.															
	E.	Locations	of Pump S	Stations.					-6	·						
70.3	PERCEN	IT OF COL	LECTION	SYSTEM	THAT IS COM	BINED	SEWE	R [1//	2					262	128293
70.4	POPULATION SERVED BY COMBINED SEWER COLLECTION SYSTEM												4	. 40	K	
70.5	NAME OF ANY SATELLITE COMMUNITY WITH COMBINED SEWER COLLECTION SYSTEM															
70.6	CSO OUTFALLS. COMPLETE THE FOLLOWING ONCE FOR EACH CSO DISCHARGE POINT												ECEMP			
70.7	DESCRIF	PTION OF	OUTFALL													CFP P
Α.	Outfall No	ımher									············			-		<u> </u>
В.	Location															
														,		
C.	Distance	from Shore	e (If applica	ıb le)		·	D		Dep	oth Below	w Surface	(if applic	able)			
	ft									ft						
E. Rainf			-		iring the last ye					 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	-1	_	.			
			ollutant Cor			<u>'U'</u>	cso		CSO	Flow Vo	olume		Keceivii	ng Water	Quali	<u>.y</u>
F			ents were	monitored	last year?											
70.8	CSO EVE) Evente in	the Leet \	/aar			C'-	Ab - A-							
	vents	ber or CSC	☐ Actual		rear Approximate	•	B .	Hou		verage L	Duration F	er CSO Actual	_		imata	
	ive the Aver	age Volum					D.			MINIMU				SED A CS		
	Million Gallon		□Actu		☐ Approximate	•				YEAR		NCHES C				2.00
70.9			RECEIVIN	G WATER	<u>S</u>											
A.	Name of F	Receiving \	vvater													
В.	Name of Watershed/River/Stream System U.S.						Soil Co	onserv	ation S	Service	14-Digit V	Vatershe	d Code (lf Known)		
Nama of	Ctoto Mana		in and Danie	·		1116	Caalaa	-lant C		0. D'-'	11.4.1					
Name or	f State Mana	agemenvk	iver Basin			0.5.	Сеоюд	picai S	urvey	8- Uigit	Hydrolog	c Catalo	ging Unit	Code (If	Know	n)
70.10		RATIONS			_+ ,	L										
Describe	any known	water qua	lity impacts	on the re	ceiving water o	aused	by this	CSO (e.g., p	ermane	ent or inte	mittent b	each do	sings, pe	man	ent or
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	on oneman	Dea Goom	ys, nan kiik	5, 113f1 duv i	isones, ourer re	rcreatio	nai ios	s, or v	lolation	n or any	applicabl	e state w	ater qua	lity standa	ard.)	
							F PAF			-,			_		_	
780-1805	TO THE A	PPLICA	TION OVE	RVIEW	TO DETERM	NE W	HICH	OTHE	ER PA	ARTS (OF FOR	B2 YC	OU MUS	ST COM	PLET	E.
100-1000	(00-00)															

FACILITY DESCRIPTION (continued)

Sterm Water Flows: (Newton County)

Average Annual Rainfall: I-in-10 Year Annual Rainfall:

inches 42 55.6 inches

25-year-24-hour storm:

inches

1-in-10 Year Flows:

Annual

Runoff from concrete and roof areas:

3.6 ft

Runoff from earth areas: (lagoon berm, lots, etc.)

2.5 ft

Rainfallminus evaporation (R-E) on lagoon water surface:

1.17ft

Surface Area

226512.9 sq.fts



Lagoon Dimensions: 540' x 280' (orest laside Top Berm: Freeboard: (top berm to spillway): Maximum operating level: Minimum operating level: Storage volume (minimum to maximum water levels) 15,400,000 gallons

Surface Area

-130680.5 sq.ft.

650' x 400' Cone Freeboard: (top berm to spillway):

Maximum operating level:

Minimum operating level:

Storage volume (minimum to maximum water levels) \\\\ 3.260,000 \quad \text{gallons}

(Length x Width)

Depth from Bottom

by feet depth feet depth

feet depth

feet depth

Depth from Bottom

by 12 feet depth

feet depth 10 feet depth

feet depth

Storage Capacity:

Lagoon Dimensions:

Inside Top Berm:

Average Annual

Design for dry weather flows:

days

Design with 1-in-10 year flows:

days

Land Application:

Irrigation volume per year:

Irrigation areas:

74,000,000 gallons (including 1-in-10 year flows) 70 acres at design loading (129 acres total available)

Application rates per acre:

Application rate is based on:

0.5 inch / hour; 1.0 inch / day; 3.0 inches / week; 39 inches / year

Field slopes:

less than 10 percent

Equipment type:

sprinklers / traveling gun / moveable big gun

Vegetation:

grass land / timber / pasture

hydraulic loading rate

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OCT 9 2013

WATER PROTECTION PROGRAM

